Risk and Protection Profile for Substance Abuse Prevention in Snohomish County



Risk and Protection Profile for Substance Abuse Prevention Planning in Snohomish County

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This report benefitted enormously from the contributions of the many individuals and their agencies who collect and maintain the data reported in this Risk and Protection Profile. Besieged by data requests as most state agencies are, these people indirectly but tirelessly support the planning and research that enhances state, county, and community efforts to prevent substance use and abuse among the youth of Washington.

In addition, the expanding participation of schools in the Washington State Survey of Adolescent Health Behaviors dramatically improves the local planning and monitoring of prevention activities. All of us working in prevention owe a debt of gratitude to the school personnel and students who contributed their time to this important survey effort.

Highlights of this County Profile

The Risk and Protective Factor Profile for each county contains the basic building blocks for the first phase of a county level needs assessment for substance abuse prevention. Besides reporting on the most recent collection of social indicator or archival data and student survey data, the sections called "Workbook" offer guidelines on how to use these data in a needs assessment that supports science-based prevention planning.

Workbook: Assess Archival Data

Page 1

This section defines "archival indicators", also known as social indicators, offers suggestions about how to interpret the data, and explains how to read the archival data graphs and tables.

County Archival Data

Page 15

Archival data is presented as summary measures and individual indicators, with comparison of county data to the state and to a set of similar counties called "Counties Like Us". The section is organized by domain---community, family, school and individual. There is also a section on other problem behaviors. The archival section includes data only on risk factors and prevalence indicators. There are no archival data sources for protective factors.

Workbook: Analyze Student Survey Data

Page 49

This section contains information about interpreting student survey data, emphasizing the issues that arise in comparison between the Fall 2000 survey and the 1998 survey. The workbook includes guidelines on interpretation, taking into account level and geographic distribution of survey participation.

Student Survey Data

Page 61

The results of the Fall 2000 Washington State Survey of Adolescent Health Behavior are presented by county (for those counties where participation was widespread) and by state. In addition, where data is available, these results are compared to results for the 1998 survey. Data are presented in charts and tables. The section includes a table that compares school district survey participation to Fall enrollment.

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Part One Needs Assessment Workbook: Archival Data



Needs Assessment Phase One: Archival Data

INTRODUCTION

What is Archival Data?

Archival Data for substance abuse prevention planning are indirect indicators of risk factors and problem behaviors. There are no archival indicators for protective factors. These indicators are indirect, or "proxy measures" of risk factors, in that they do not directly measure risk, but rather show a statistical correlation with measures of substance use from the student survey. The presentation of these data begins on page 18. *(For and explanation of statistical correlation, see "Correlation" in Appendix One – Technical Notes.)*

The measures of problem behaviors, which we call prevalence indicators, are also not direct measures of substance use but rather show numbers of behaviors for which there have been interventions (arrests, treatment, etc.). These data begin on page 38.

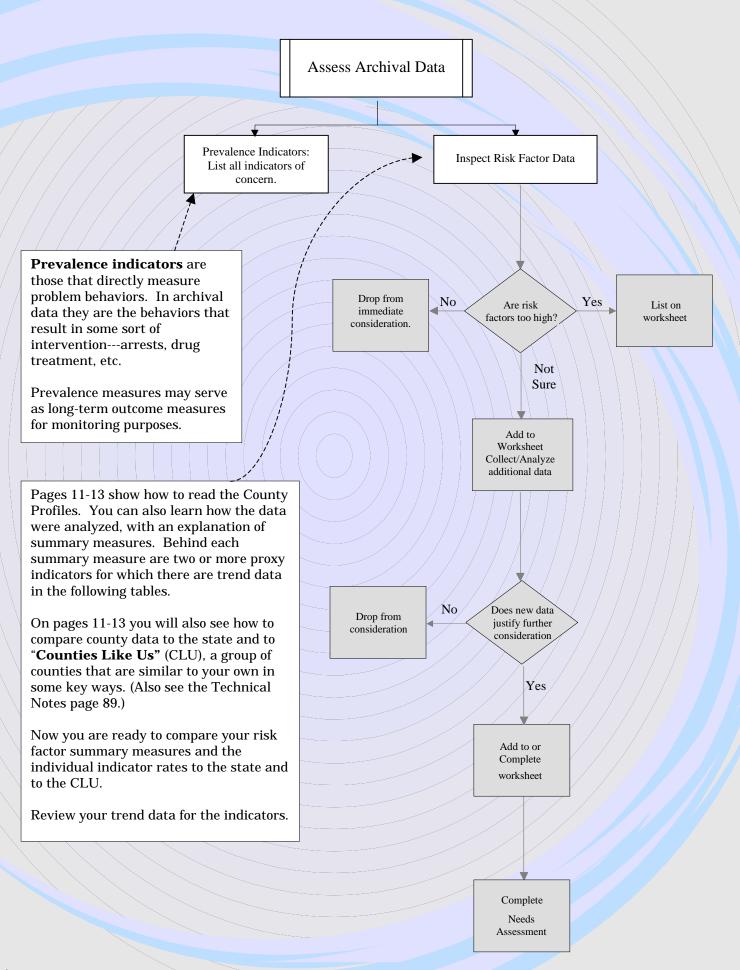
For a complete description of the research on which these archival indicators are based, see the 1997 *Profile on Risk and Protection for Substance Abuse Prevention Planning in Washington State.* You can find that report on the RDA web site at: www.app2.wa.gov/dshs/rda/reports

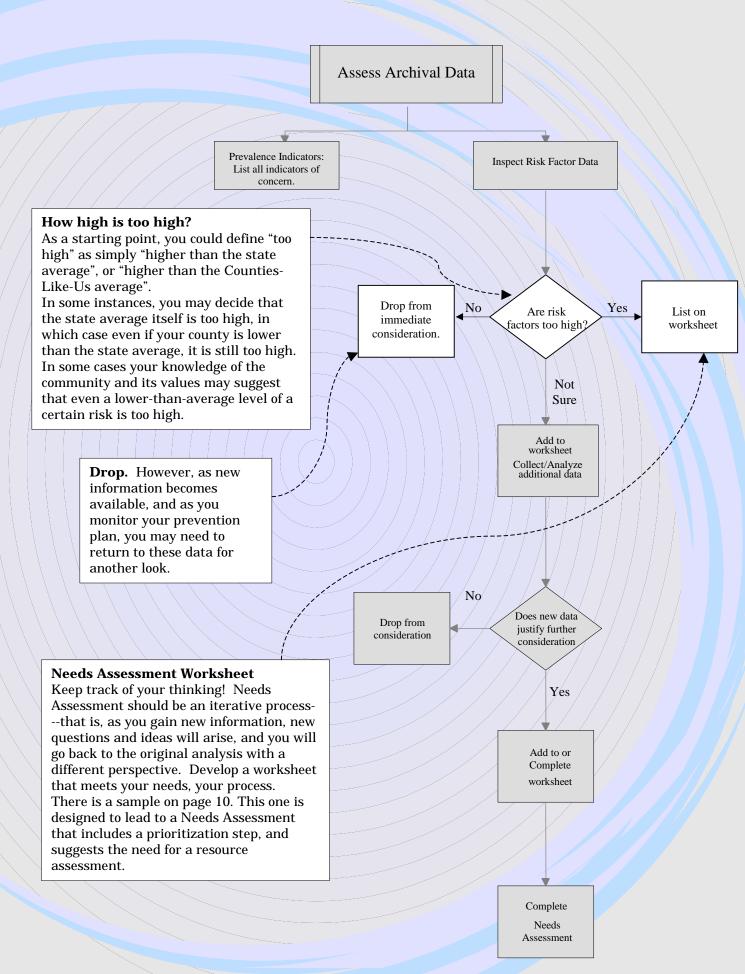
What do the tables and graphs of archival data mean?

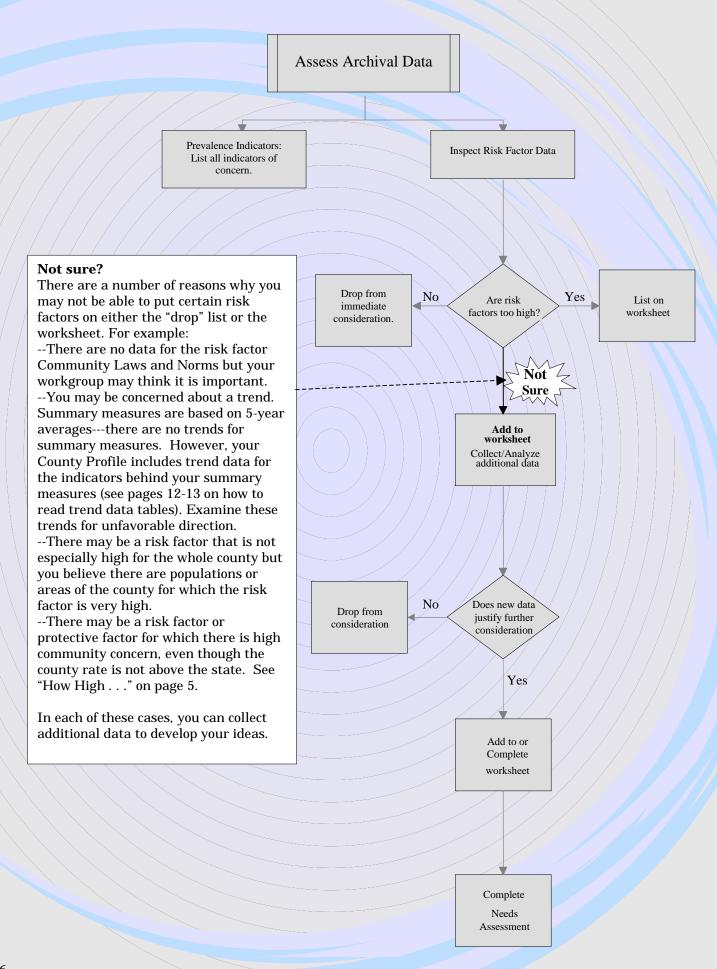
An explanation of how to read the county risk profile and the data behind it can be found on pages 11-13.

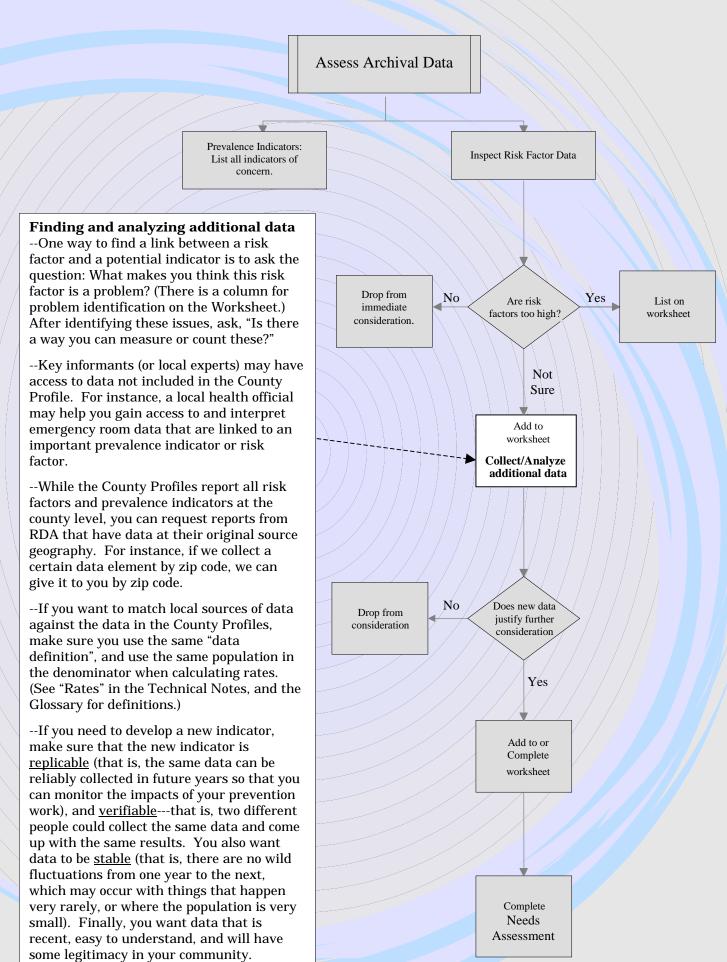
How are archival data used in a needs assessment?

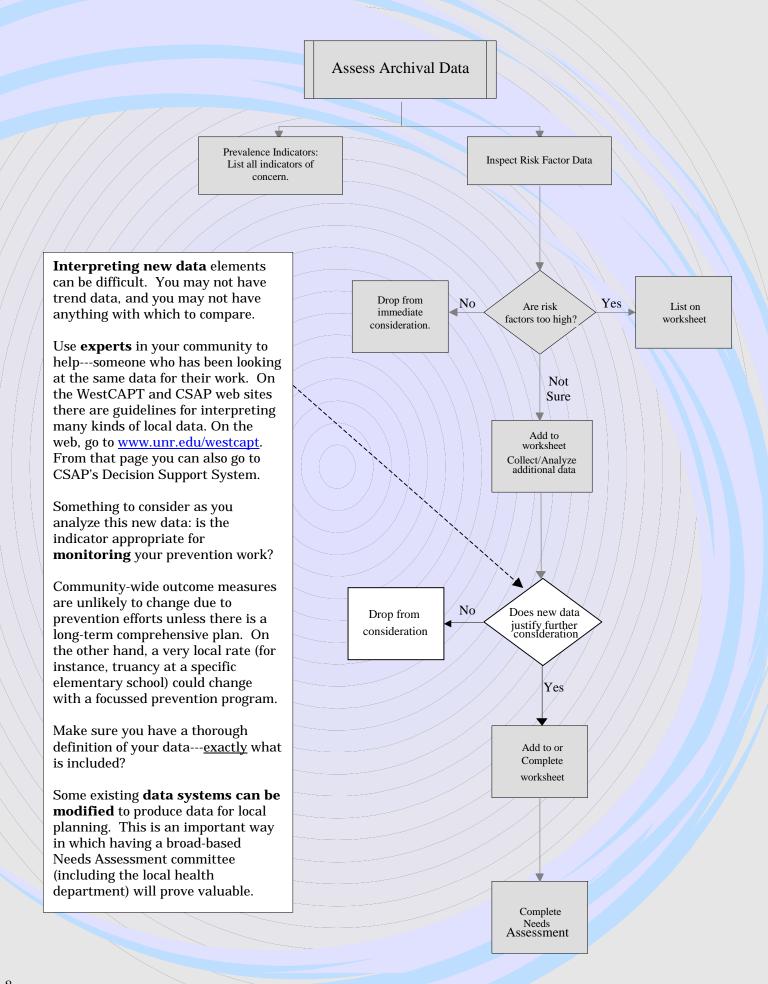
The flow chart that appears on the nest eight pages outlines the basic steps for the first phase of the needs assessment. This phase begins with the assessment of arrival data based on the county level data presented in Part Two of this report. Each step of the assessment will be explained in the following pages.

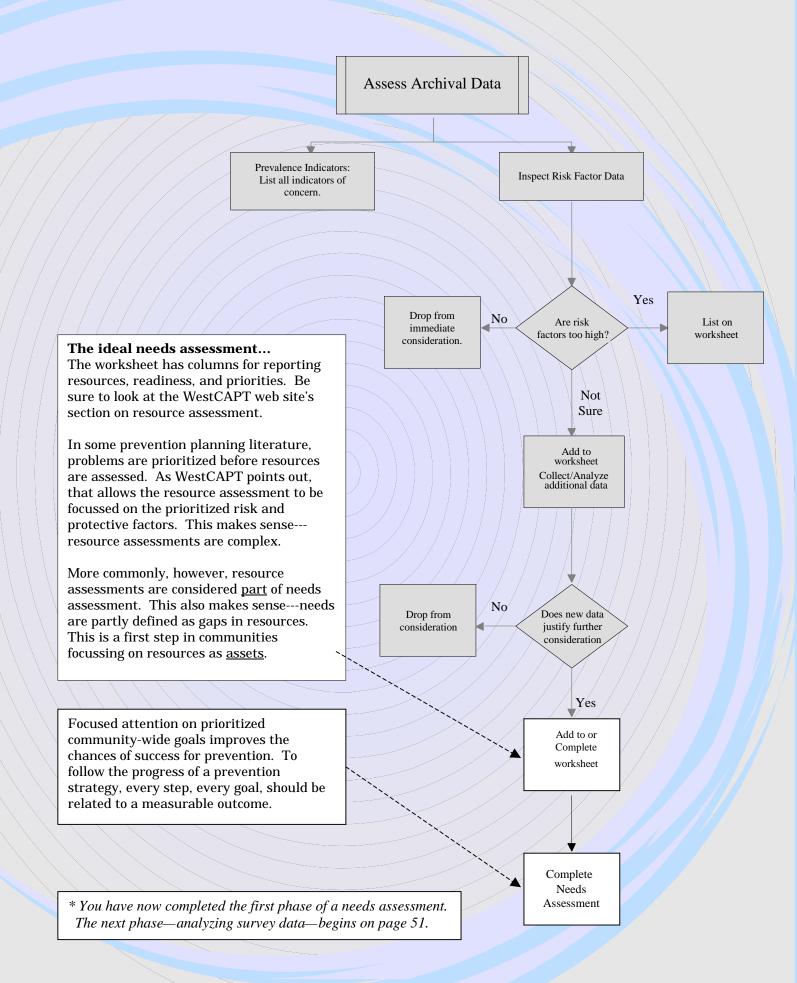








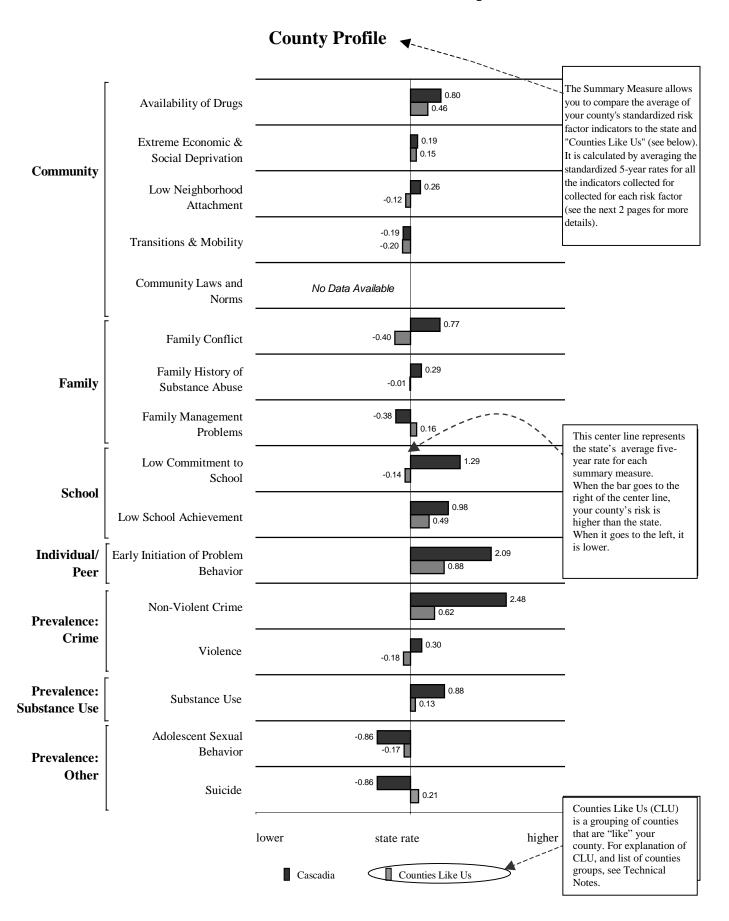




Needs Assessment (Sample) Work Sheet

	T					
Risk Factor, Protective Factor or Prevalence Indicator	How does this show up in your community? How do you know it is a problem?	Data Analyzed/Source	Are there gaps in resources? Where are they?	Are there adequate resources to fill gaps?	Is the community ready to address this?	Priority

How to Read the Charts and Graphs



How Summary Measures are Displayed

Availability of Drugs These are the same summary measures that Summary Measure appear on the first page of the County Profile. state average This line represents the state lower risk higher risk average for this risk factor. When a bar goes to the right 0.80 of the line, the risk factor is higher than the state average. 0.46 If it is to the left of the line, the risk factor is lower. Cascadia Counties Like Us (CLU) 5-year Rates Standardized Scores Indicators County State **CLU** County ► Alcohol Retail Licenses 0.84 3.15 1.97 2.62 0.46 **Tobacco Sales Licenses** 2.34 1.65 2.07 0.75 0.45 0.80 Average Indicator Standardized Score, Summary Measure* 0.46 *See Glossary: Standardized Scores and Summary Measures. The five year averages for county and CLU are Annual rates for the most recent 5 This summary measure has standardized to see how different they are from years are averaged. two indicators. Each has its the state average. Approximately 95% of the own graph. state will fall between a -2.0 and +2.0 standard deviations from state average. (For more details see Glossary.) Alcohol Retail Licenses Read the rate as "2.12 licenses per 1,000 people". Rate Per 1,000 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 State Rate 2.12 2.06 2.03 2.01 2.01 2.00 1.98 1.91 2.01 1.96 Counties Like Us

Note: State liquor stores and retail alcohol outlets on reservations and on military bases are not included in these data.

2.73

3.46

189

54,602

2.70

3.48

195

56,000

2.67

3.33

193

57,998

2.66

3.19

191

59,962

2.62

3.20

196

61,301

2.62

3.16

197

62,439

2.57

3.14

199

63,476

2.65

3.09

202

65,270

2.85

3.54

185

52,250

2.78

3.52

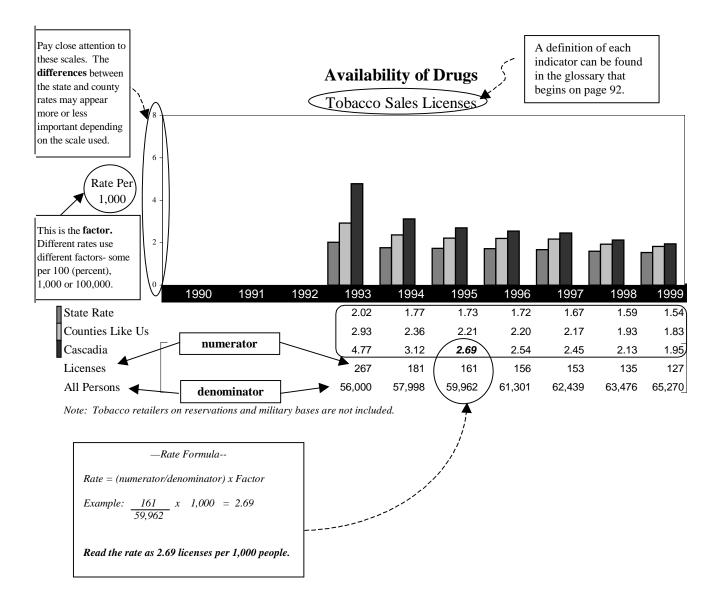
187

53,200

Cascadia

Licenses

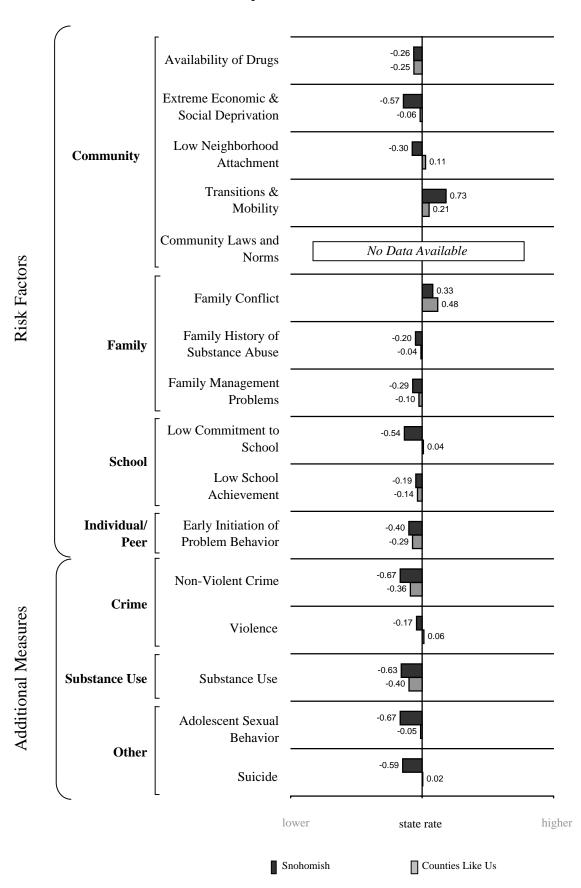
All Persons



Part Two Archival Data

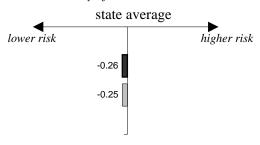


County Profile: Archival Data



Availability of Drugs

Summary of Standardized Scores

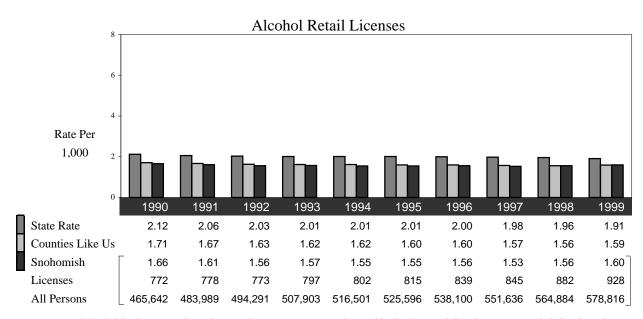


Snohomish

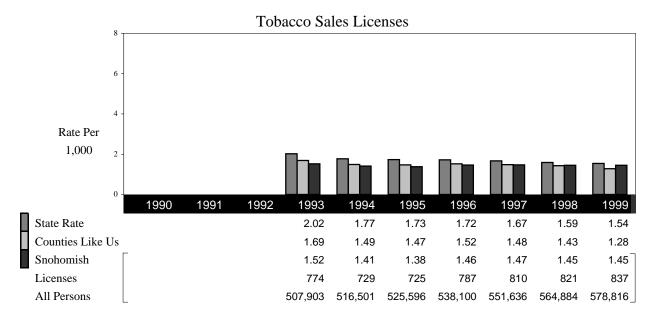
Counties Like Us (CLU)

Indicators		-year Rat	Standardized Scores		
Indicators	County	State	CLU	County	CLU
Alcohol Retail Licenses	1.56	1.97	1.59	-0.29	-0.27
Tobacco Sales Licenses	1.44	1.65	1.44	-0.22	-0.23
Average Indicator Standardized Score, Summary Measure*				-0.26	-0.25

^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.



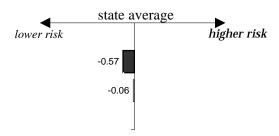
Note: Retail alcohol facilities on military bases and reservations are not licensed by the State and therefore are not included in these data.



Note: Tobacco retailers on military bases and reservations are not licensed by the State and therefore are not included in these data.

Extreme Economic and Social Deprivation

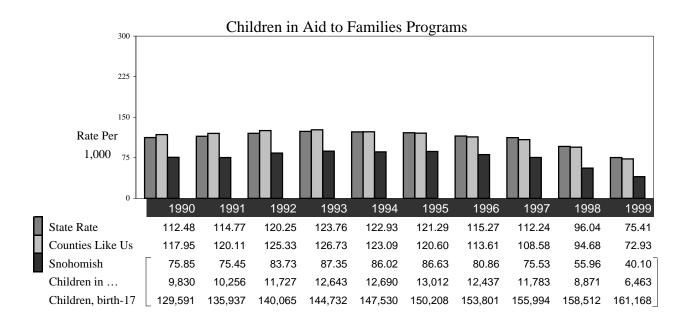
Summary of Standardized Scores

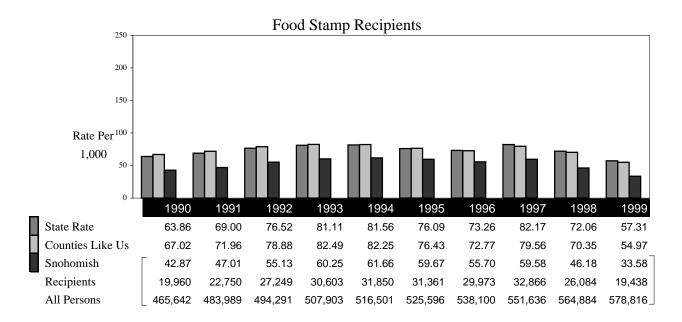


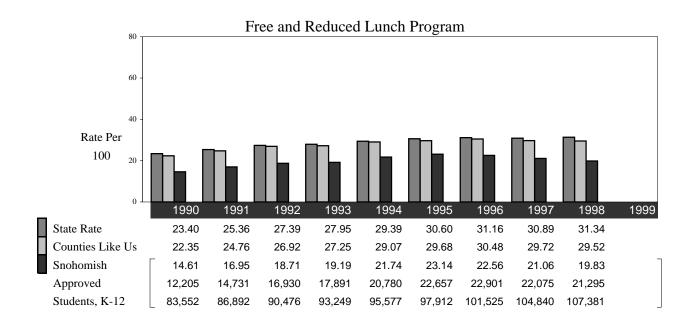
Snohomish Counties Like Us (CLU)

Indicators	Five-year Rates			Standardized Scores		
indicators	County	State	CLU	County	CLU	
Children in Aid to Families Programs	67.42	103.72	101.72	-0.84	-0.05	
Food Stamp Recipients	50.64	72.03	70.62	-0.59	-0.04	
Free and Reduced Lunch Program	21.63	30.69	29.70	-0.76	-0.08	
Low Birthweight Babies Born	51.32	56.00	56.45	-0.32	0.03	
Unemployment, Age 16+	4.26	5.40	4.83	-0.33	-0.16	
Average Indicator Standardized Score, Summary Measure*				-0.57	-0.06	

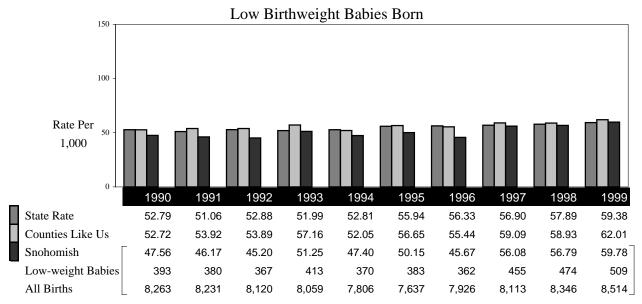
^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.



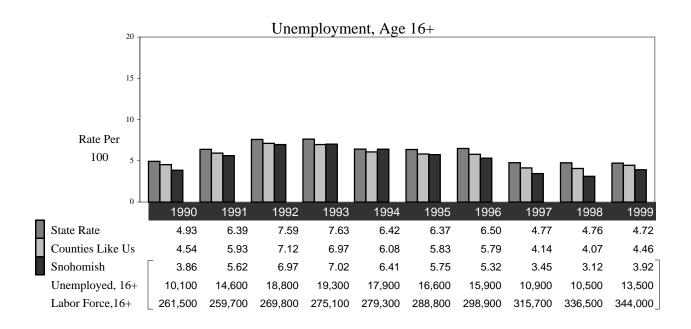




Extreme Economic and Social Deprivation

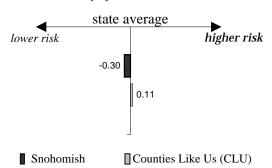


Note: Changes in data result from on-going updates to birth records. NR-No rate is given when the numerator is less than 5.



Low Neighborhood Attachment

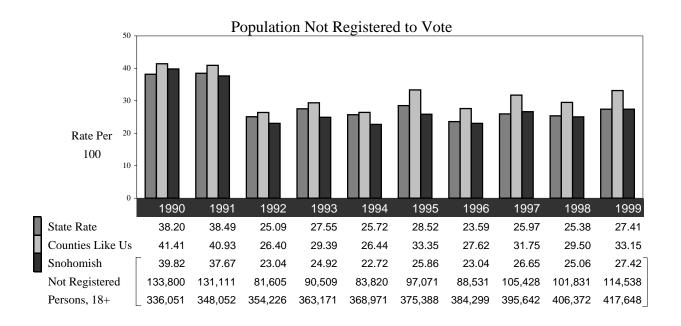
Summary of Standardized Scores



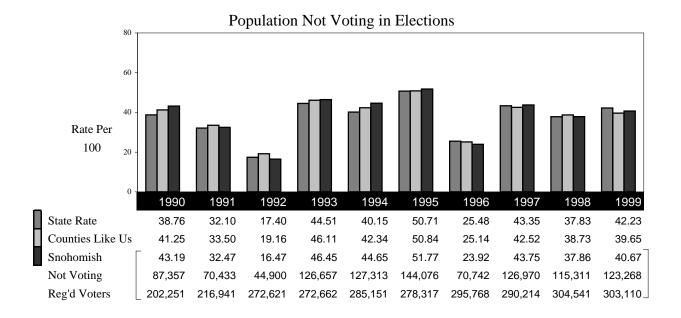
Indicators	Five-year Rates			Standardized	Standardized Scores		
limicators	County	State	CLU	County	CLU		
Population Not Registered to Vote	25.63	26.17	31.09	-0.05	0.48		
Population Not Voting in Elections	39.43	39.73	39.14	-0.05	-0.09		
Prisoners in State Correctional Systems, Age 18+	76.04	114.89	111.70	-0.80	-0.07		
Average Indicator Standardized Score, Summary Measure*				-0.30	0.11		

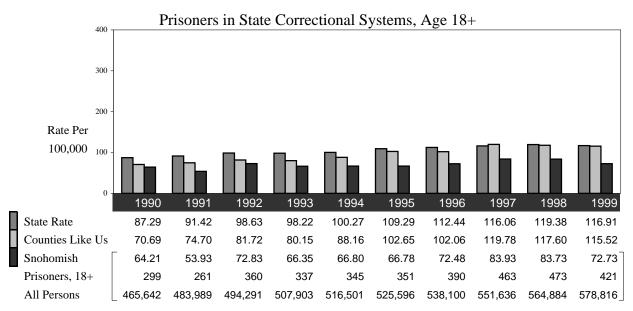
^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.

Note: Residential Vacancies which came from the Census was dropped from this measure because data is only available once every ten years.



Low Neighborhood Attachment

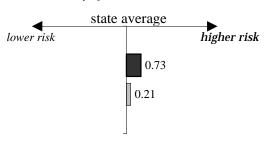




Note: NR-No rate is given when the numerator is less than 5.

Transitions and Mobility

Summary of Standardized Scores



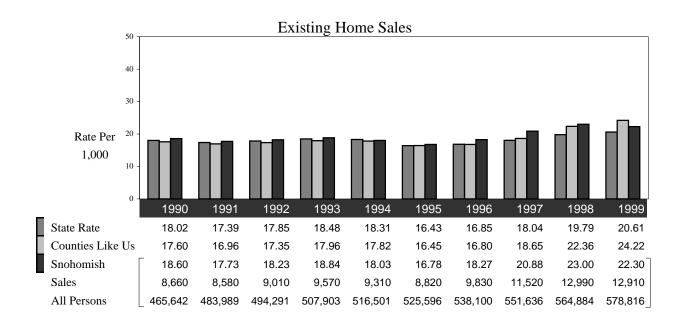
Snohomish

Counties Like Us (CLU)

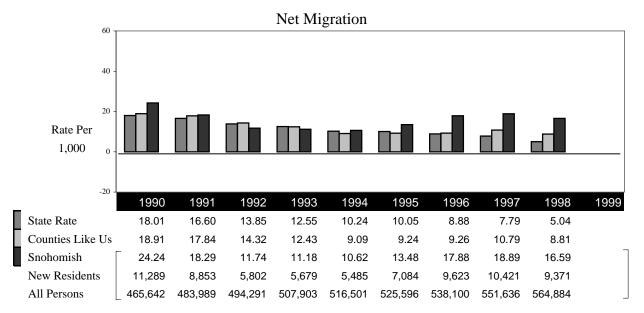
Indicators	Five	-year Rat	Standardized Scores		
indicators	County	State	CLU	County	CLU
Existing Home Sales	20.32	18.39	19.79	0.41	0.29
Net Migration	15.57	8.36	9.44	1.08	0.16
New Residence Construction	10.33	7.47	8.24	0.70	0.19
Average Indicator Standardized Score, Summary Measure*				0.73	0.21

^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.

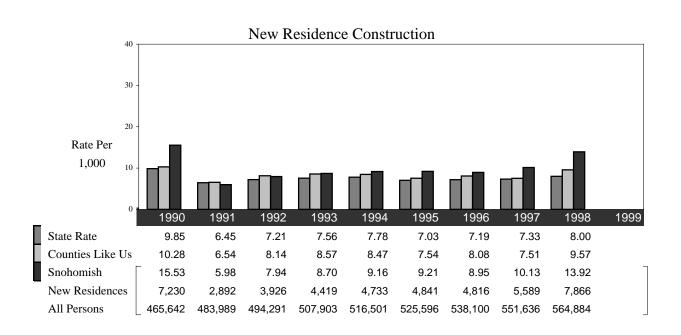
Note: Households in Rental Properties which came from the Census was dropped from this measure because data is only available once every ten years.



Transitions and Mobility

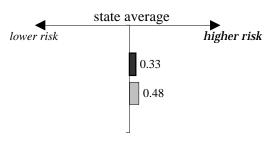


Note: Based on a three-year rolling average, previously reported as a five-year rolling average.



Family Conflict

Summary of Standardized Scores

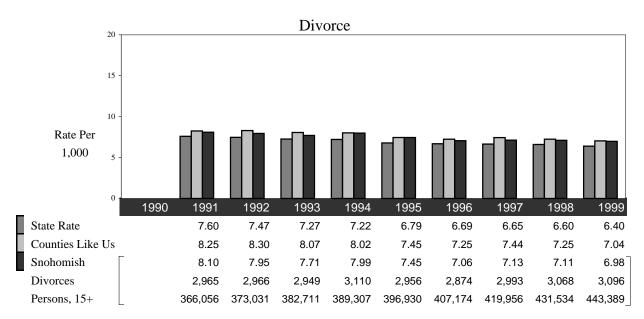


Snohomish

Counties Like Us (CLU)

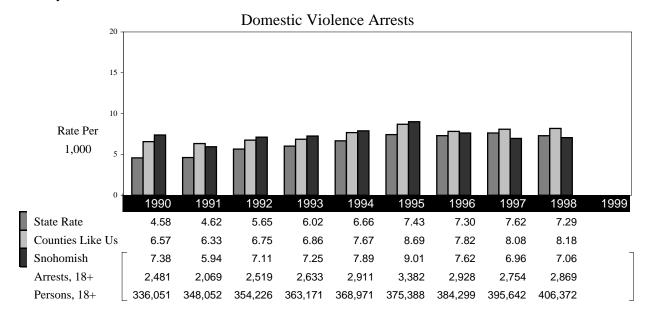
Indicators	Five-year Rates			Standardized Scores		
Indicators	County	State	CLU	County	CLU	
Divorce	7.14	6.62	7.28	0.47	0.59	
Domestic Violence Arrests	7.69	7.27	8.09	0.18	0.36	
Average Indicator Standardized Score, Summary Measure*				0.33	0.48	

^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.



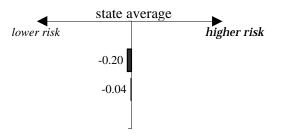
Note: Divorces are reported by county of wife's residence or by husband's residence when her's is not available.

Family Conflict



Family History of Substance Abuse

Summary of Standardized Scores



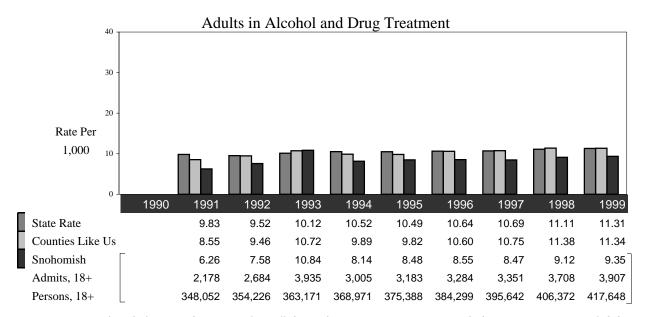
Snohomish

Counties Like Us (CLU)

Indicators	Five-year Rates			Standardized Scores		
Hidicators	County	State	CLU	County	CLU	
Adults in Alcohol and Drug Treatment	8.81	10.86	10.80	-0.36	-0.01	
Alcohol- and Drug-Related Deaths	5.59	5.69	5.53	-0.04	-0.06	
Average Indicator Standardized Score, Summary Measure*				-0.20	-0.04	

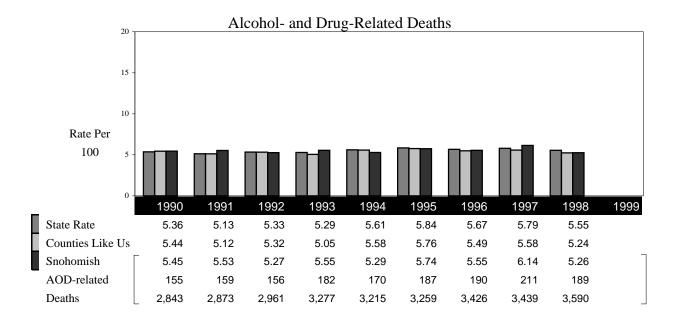
*See Appendix One - Technical Notes: Standardized Scores and Summary Measures.

Note: Alcohol- and Drug-Related Deaths were not included in the previous county report.



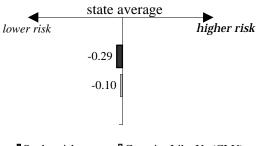
Note: Rates vary from the last report because people enrolled more than one year in outpatient or methadone treatment are now included and refinements in our geographic assignment process caused slight changes. Persons in Department of Corrections treatment programs are not included.

Family Substance Abuse



Family Management Problems

Summary of Standardized Scores

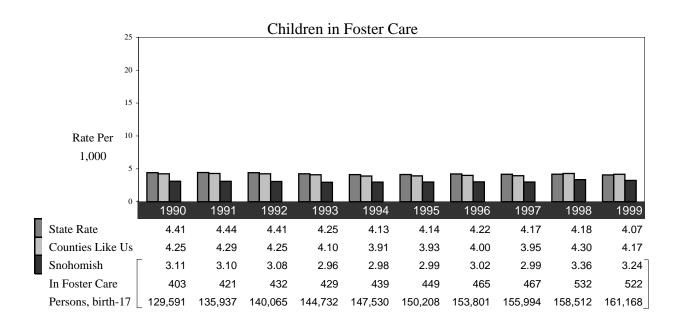


Snohomish Counties Like Us (CLU)

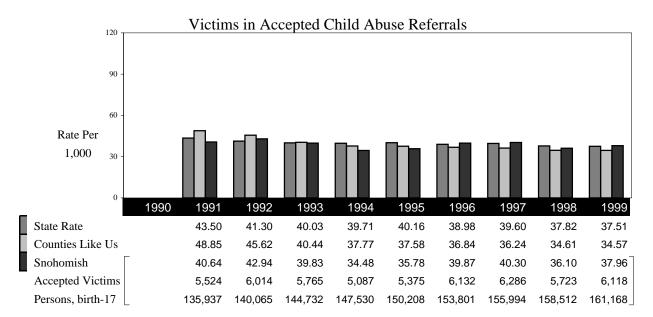
Indicators	Five-year Rates			Standardized Scores		
	County	State	CLU	County	CLU	
Children in Foster Care	3.12	4.16	4.07	-0.53	-0.04	
Victims in Accepted Child Abuse Referrals	38.01	38.80	35.94	-0.04	-0.15	
Average Indicator Standardized Score, Summary Measure*				-0.29	-0.10	

^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.

Note: Children Living Away from Parents which came from the Census was dropped from this measure because data is only available once every ten years.



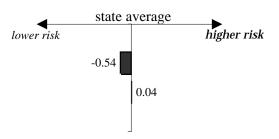
Family Management Problems



Note: A "referral" is a report of suspected child abuse.

Low Commitment to School

Summary of Standardized Scores

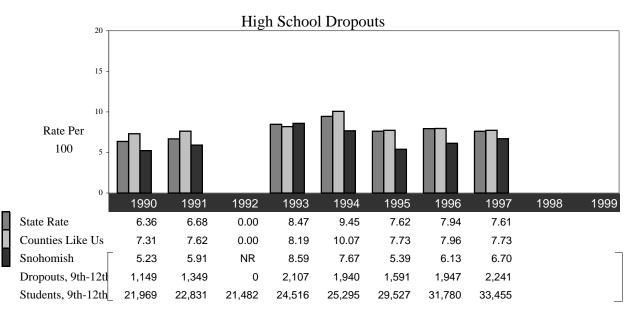


Snohomish

Counties Like Us (CLU)

Indicators	Five-year Rates			Standardized Scores		
Hidicators	County	State	CLU	County	CLU	
High School Dropouts	6.80	8.17	8.28	-0.54	0.04	
Average Indicator Standardized Score, Summary Measure*				-0.54	0.04	

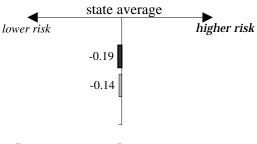
^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.



Note: No data are available for 1992.

Low School Achievement

Summary of Standardized Scores

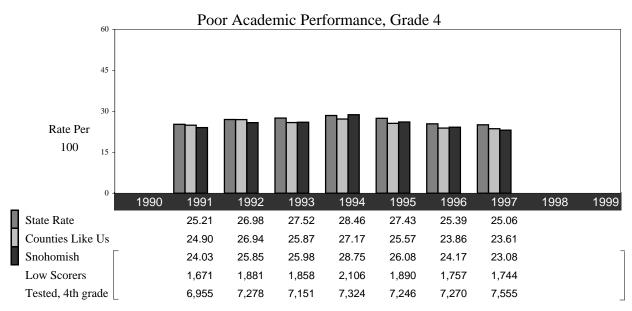


Snohomish

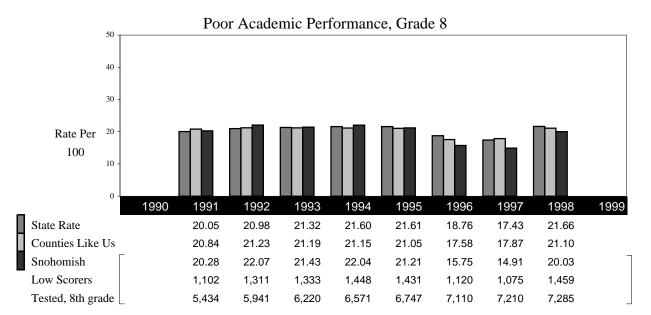
Counties Like Us (CLU)

Indicators	Five-year Rates			Standardized Scores		
Tildicators	County	State	CLU	County	CLU	
Poor Academic Performance, Grade 4	25.60	26.77	25.22	-0.16	-0.21	
Poor Academic Performance, Grade 8	18.71	20.19	19.72	-0.22	-0.07	
Average Indicator Standardized Score, Summary Measure*				-0.19	-0.14	

^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.



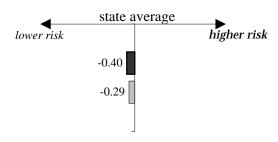
Washington's testing system is in the process of changing content and grades tested. Methods for developing trend data are evolving, but more current data are not available at this time.



Washington's testing system is in the process of changing content and grades tested. Methods for developing trend data are evolving, but more current data are not available at this time.

Early Initiation of Problem Behavior

Summary of Standardized Scores

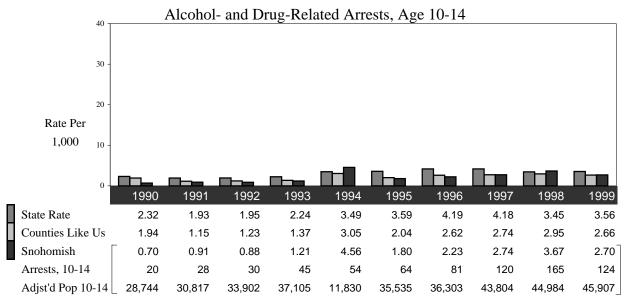


Snohomish

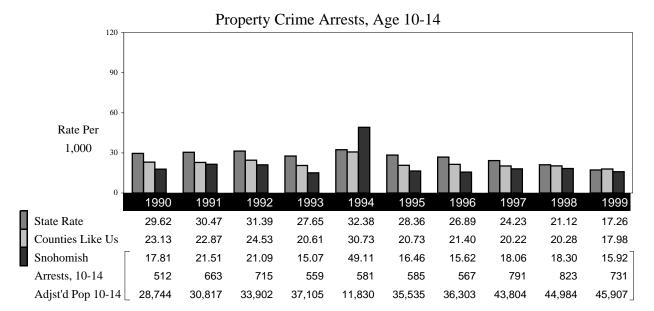
Counties Like Us (CLU)

Indicators	Five-year Rates			Standardized Scores		
	County	State	CLU	County	CLU	
Alcohol- and Drug-Related Arrests, Age 10-14	2.81	3.77	2.67	-0.25	-0.29	
Property Crime Arrests, Age 10-14	19.41	26.40	22.23	-0.69	-0.41	
Vandalism Arrests, Age 10-14	2.75	3.71	3.13	-0.27	-0.17	
Average Indicator Standardized Score, Summary Measure*				-0.40	-0.29	

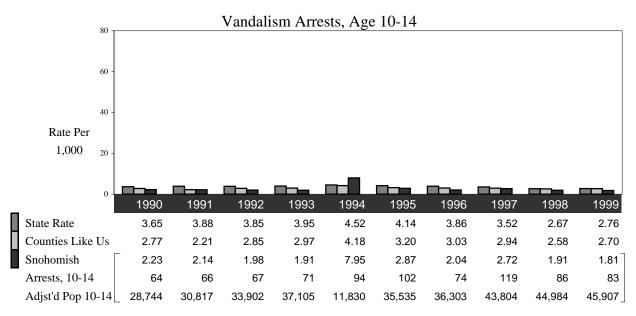
^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.



Note: 1) Data may differ from our last report because of refinements to our population adjustment process. Denominators are adjusted by subtracting the population of police agencies that did not report arrests to UCR. In spite of this population adjustment, when the non-reporting police jurisdiction is where much of the crime occurs, the rate for the county will be lower than it would be if that jurisdiction was included. For percent subtracted and the agencies not reporting, see Appendix Three. 2) The DUI portion of this measure is likely understated, because arrests made by the State Patrol (approximately 40% of DUI arrests) are not attributable to counties. State Patrol arrests are included in the state rates. 3) NR-No rate is given when the numerator is less than 5.



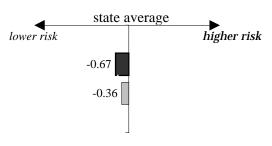
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Non-Violent Crime

Summary of Standardized Scores

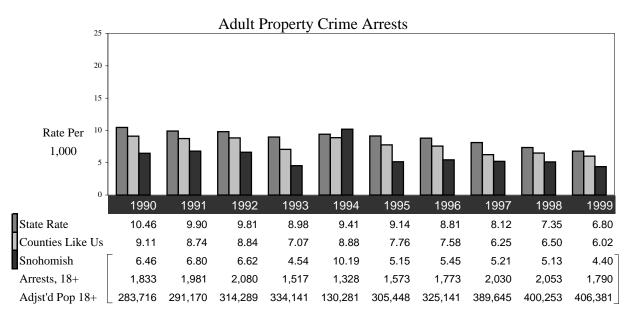


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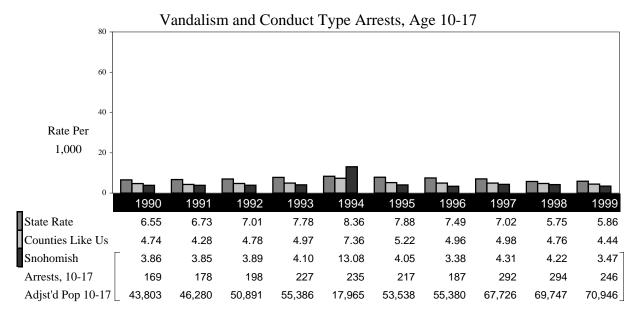
Counties Like Us (CLU)

Indicators	Five-year Rates			Standardized Scores		
	County	State	CLU	County	CLU	
Adult Property Crime Arrests	5.65	8.55	7.30	-0.86	-0.37	
Vandalism and Conduct Type Arrests, Age 10-17	4.63	7.24	5.34	-0.39	-0.28	
Property Crime Arrests, Age 10-17	29.00	38.47	33.18	-0.75	-0.42	
Average Indicator Standardized Score, Summary Measure*				-0.67	-0.36	

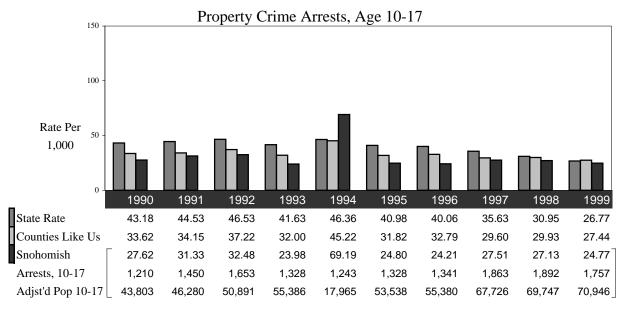
^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.



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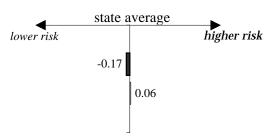
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Violence

Summary of Standardized Scores

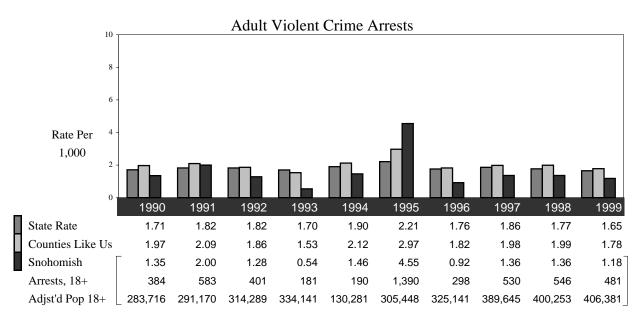


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Counties Like Us (CLU)

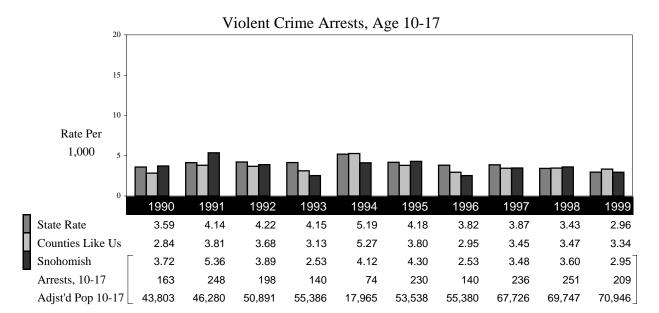
Indicators	Five-year Rates			Standardized Scores		
	County	State	CLU	County	CLU	
Adult Violent Crime Arrests	1.90	1.90	2.17	0.01	0.34	
Violent Crime Arrests, Age 10-17	3.52	4.07	3.71	-0.35	-0.23	
Average Indicator Standardized Score, Summary Measure*				-0.17	0.06	

^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.



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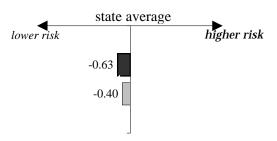
Violence



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Substance Use

Summary of Standardized Scores

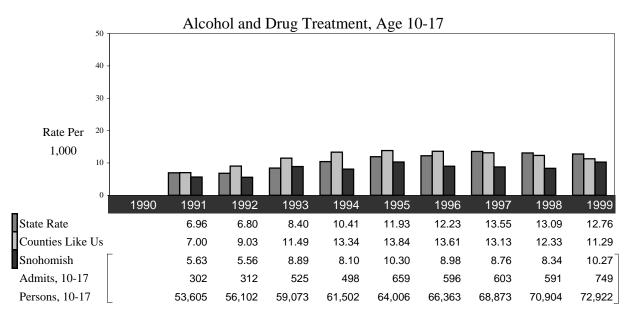


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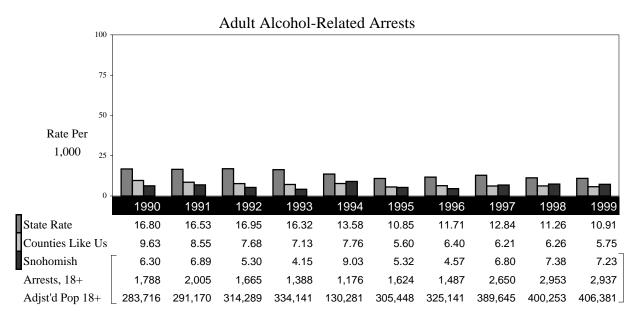
Counties Like Us (CLU)

Indicators	Five-year Rates			Standardized Scores		
	County	State	CLU	County	CLU	
Alcohol and Drug Treatment, Age 10-17	9.32	12.72	12.81	-0.56	0.01	
Adult Alcohol-Related Arrests	6.38	12.00	6.39	-0.82	-0.82	
Adult Drug-Related Arrests	2.58	5.21	5.33	-1.36	0.06	
Adult Drunken Driving Arrests	4.52	9.27	4.40	-1.23	-1.27	
Alcohol-Related Traffic Fatalities	45.59	42.03	41.74	0.28	-0.02	
Alcohol Violation Arrests, Age 10-17	5.99	8.86	4.93	-0.26	-0.35	
Drug Law Violation Arrests, Age 10-17	3.98	4.99	4.17	-0.49	-0.40	
Average Indicator Standardized Score, Summary Measure*				-0.63	-0.40	

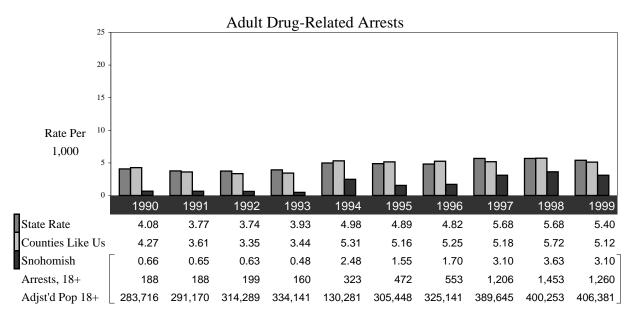
^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.



Note: Data may differ from the last report because people enrolled more than one year in outpatient or methadone treatment are now included and refinements in our geographic assignment process caused slight changes. Persons in Department of Corrections treatment programs are not included.

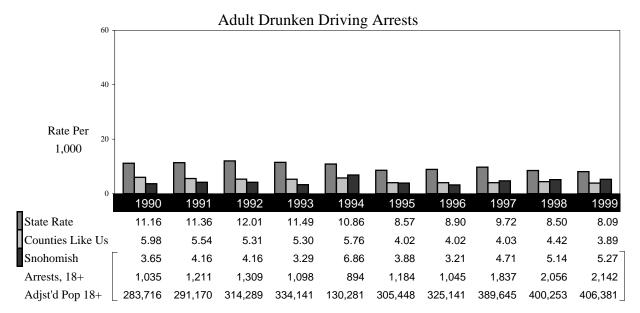


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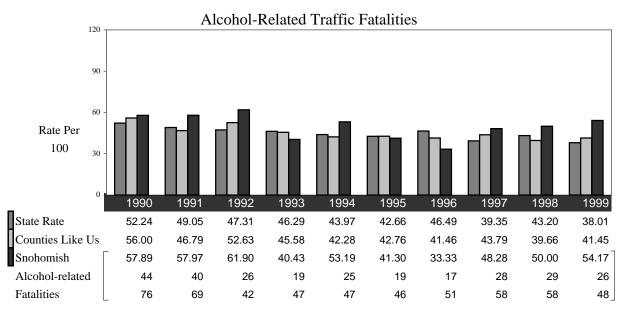


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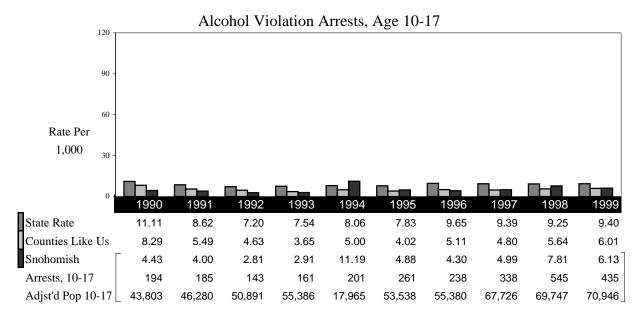
Substance Use



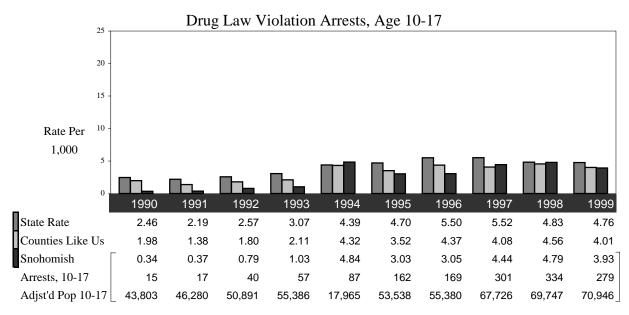
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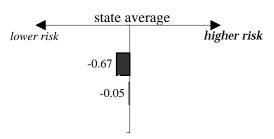
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Adolescent Sexual Behavior

Summary of Standardized Scores

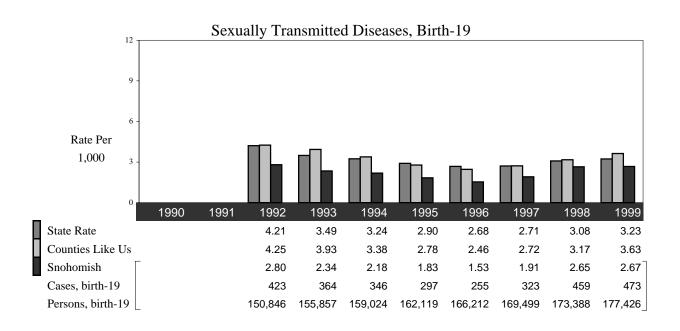


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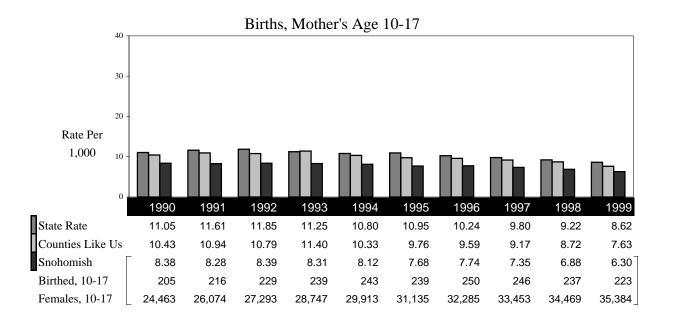
Counties Like Us (CLU)

Indicators	Five-year Rates			Standardized Scores		
	County	State	CLU	County	CLU	
Sexually Transmitted Diseases, Birth-19	2.13	2.92	2.96	-0.82	0.04	
Births, Mother's Age 10-17	7.53	10.18	9.49	-0.51	-0.13	
Average Indicator Standardized Score, Summary Measure*				-0.67	-0.05	

^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.

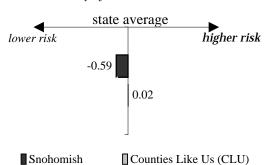


Adolescent Sexual Behavior



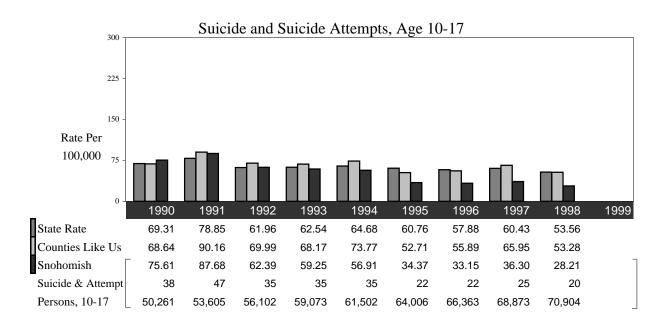
Adolescent Suicide Attempts

Summary of Standardized Scores



Indicators	Five-year Rates			Standardized Scores		
	County	State	CLU	County	CLU	
Suicide and Suicide Attempts, Age 10-17	37.39	59.34	60.17	-0.59	0.02	
Average Indicator Standardized Score, Summary Measure*				-0.59	0.02	

^{*}See Appendix One - Technical Notes: Standardized Scores and Summary Measures.



Part Three Needs Assessment Workbook: Student Survey Data



Needs Assessment Phase Two: Analyze Student Survey Data

INTRODUCTION

What is Student Survey Data?

In Fall 2000, over 100,000 6th, 8th, 10th and 12th grade students in 629 schools successfully completed the Washington State Survey of Adolescent Health Behaviors (WSSAHB). The goal of this survey is to learn how Washington youth respond to questions about substance use and other problem behaviors, and to assess their levels of risk and protective factors that relate to substance use and other problem behaviors.

Who Receives Survey Data?

- Counties that had either survey participation by more than 50% of students in each grade (6th, 8th, 10th, and 12th), and more that half of the school buildings, or that successfully followed a random sampling plan, receive county-level results. [NOTE: Participation by all or part of a county in a survey administration that was particular to one of Washington's research grants (Diffusion or SIG) may affect county data. See the note on page 59.]
- Superintendents of school districts with more than 50% participation receive district-level reports.
- Superintendents receive school building results for all of the buildings in the district that participated in the survey.

How can a county without county-level data use WSSAHB data in their needs assessment?

- Every county profile includes results of the state-wide sample. Counties that do not have county-level data can use state results to support their needs assessment.
- Where there are no county survey results but some school district results are available, county prevention staff can work with their school partners to complete a needs assessment for a geographic area that corresponds to the school district. This workbook gives guidelines on how to interpret survey results based on the percentage and distribution of students who participated in the survey.

What is the relationship between survey data and archival data?

- Research on the relationship between archival and survey data is ongoing. It is probably most useful to consider these as two ways of looking at the same thing. Other perspectives exist, for instance the perspective of local service providers and law enforcement personnel, many of whom have data to support their analyses.
- With the addition of survey data to your needs assessment process, you are in a position to weigh all the evidence you have gathered. Where all the evidence points in the same direction, your choice is clear. Where there are contradictions that you cannot resolve with the evidence on hand, you may need to look for additional information. Remember, your goal is to find and use measures for your needs assessment that
 - are reliable (or replicable), verifiable, and stable; and that
 - you can later use to monitor your prevention efforts.

♦ ◆ Important!---READ THIS ◆ ◆

How should prevention program planners analyze survey data? The bars on the profiles in this report represent the percentage of students who are resilient (with protection), at risk, and who have engaged in the problem behaviors (substance use and antisocial behavior). The flow chart on pages 54-60 offer guidelines for your analysis.

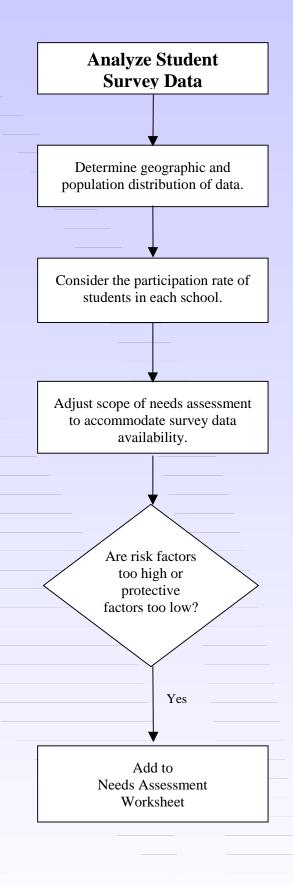
In addition to changes in survey questions, the "percent at risk" and "percent with protection" is based on a new analysis of the cut-points that define risk and resiliency. An explanation of that cut-point analysis can be found in the Technical Notes. This change in analysis means that you should not compare the risk and protective factor results of the 2000 survey to **previously** published 1998 reports. The 1998 numbers reported here are adjusted to reflect the new analysis, and the school districts have received new district and building analyses.

Why was the survey changed?

Changes in the survey come from several different directions.

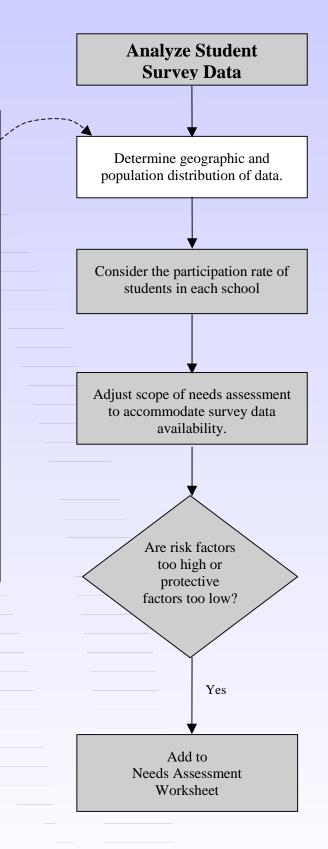
- Some items were dropped from this survey because of the length of the survey. However, risk factors for which there are no data are still important for prevention programs and you are encouraged to use other data (including older survey data) for these risk factors. Some of the missing items will be included in the 2002 survey.
- Many items that are required for monitoring and evaluating tobacco prevention efforts were added to the survey, making it longer than optimal. This length problem will be partly resolved with the 2002

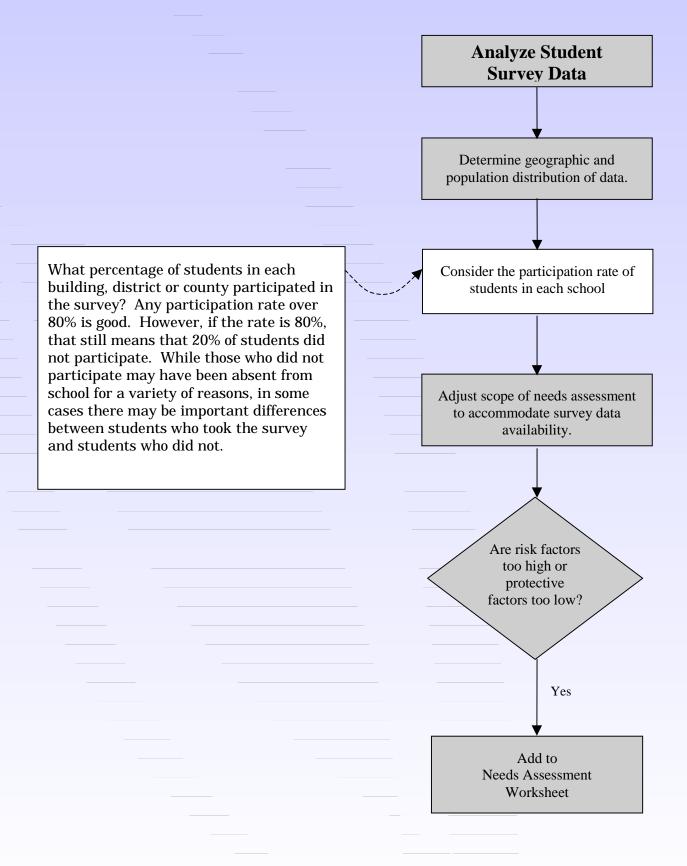
- survey when a joint administration of the WSSAHB and the Youth Risk Behavior Survey (YRBS) will allow the new tobacco questions to be included in the YRBS.
- Research with our partners at the University of Washington led to the development of the cut-points, and some of the changes in risk and protective factors. This research is on-going, and we will benefit from advances in the field of prevention. In Washington State we have enough statewide and school district data that we will be able to deepen our research agenda, and this may lead to more changes in the survey items. The cut-points will stay the same, so that we can use risk and protective factor data in our monitoring and evaluation efforts.
- The change from Spring to Fall administration was based on an effort to find the optimal time in the schools' academic calendars, and to find a way to meet the needs of the planning efforts based on the WSSAHB and the YRBS.



Compare school building participation in the survey to the number and geographic distribution of buildings in each school district in your county, and the school district participation to the districts in your county.

- If no school districts in your county participated in the survey, you can still use the statewide data for your Needs Assessment.
- ❖ If your school building participation is spotty, concentrated in only one part of the county, or in only one type of school (for instance, only large urban schools), you could use the data selectively, but not for countywide assessment.
- ❖ If only one of three elementary schools in a town or community participated, be cautious of applying these results to the whole community. The population of each school building may be very different.





DASA Prevention and OCD Community Mobilization needs assessments can be successfully completed with county data if you have it, and state data if you do not. In addition, you can complete a needs assessment for any other geographic boundary for which you have adequate data.

No county data?

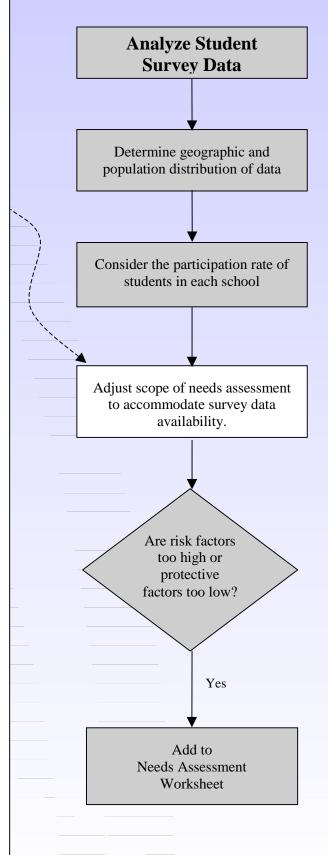
For instance, if you do not have countywide survey data, you can do a county needs assessment based on archival data and state student survey data. Say the members of your needs assessment team have *qualitative* data that supports the focus on a particular risk factor, but no survey data. Your needs assessment can site the state rate for the risk factor (your *quantitative* data) and support it with your other local evidence. (Before developing a prevention program to address this risk factor, you should develop an indicator for monitoring outcomes.)

If you have survey data for some of your county's school districts (say, two out of five of the county's school districts), you can complete a more precise needs assessment for the communities that most closely correspond to those school districts. In that case you may want to collect additional archival data that matches the school district or community boundaries.

NOTE

Counties with research projects (SIG and Diffusion)

Even though a significant part of your county has participated in student surveys administrated at other times, you may not have county results in this report, or you may not have county comparison data from 1998/99. This is because the surveys are not precisely comparable. Additional analytic work by the researchers will be required to adjust those data for new cut-points and differences in wording.



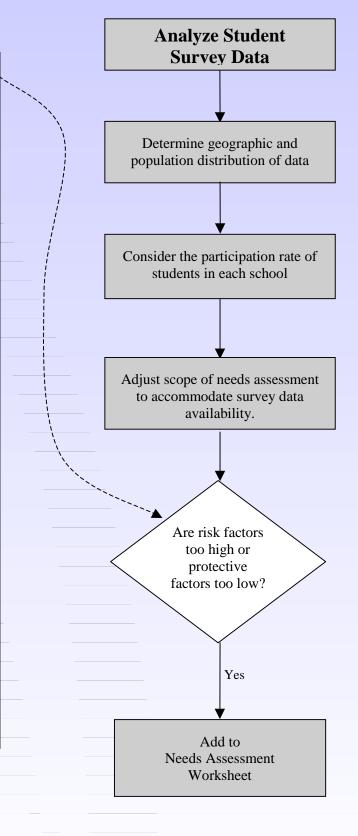
Consider the percent of students at risk in terms of comparisons with other geographies and times.

Tips on Analysis

There have been a number of changes between the 1998 survey and Fall 2000. (See the next page for a list and discussion of those changes.) It is essential that you consider these changes when comparing the new data to survey data in previous reports.

Compare local results to state results, and 1998 data to Fall 2000 data.

- The findings in this survey give a general picture of students' perceptions and behaviors. These are estimates, not exact measures.
- Differences in results can be considered from both a statistical and a practical point of view. **Statistical significance** is influenced primarily by the number of students who participated in the survey. In general, the more students who participate, the more precise are these estimates. In small counties and school districts, differences of less than 5% are probably not important.
- Differences in results are practically significant if the differences are programmatically meaningful.



Changes Between the 1998 and 2000 Survey

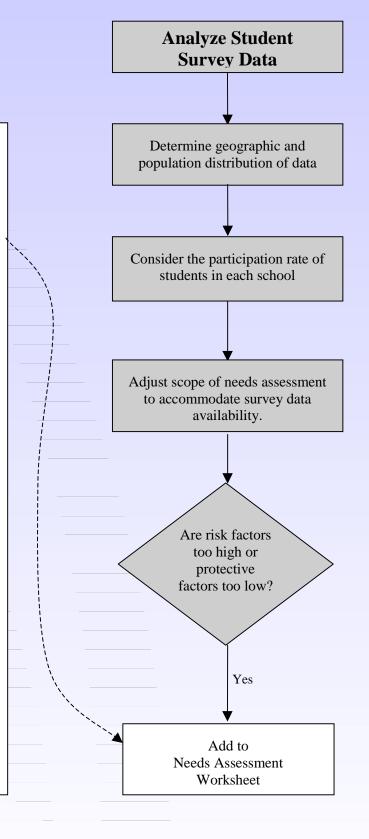
❖ If you have county-level survey data for 1998, you will notice that the figures presented here for 1998 "percent at risk" and "percent with protection" are different from those published in the 1999 County Profiles. These changes are based on research that established a new set of "cut-points"---the point on a risk factor scale at which a student was determined to be at risk, or on a protective factor scale that indicated "with protection", or resilient. (See Technical Notes for more detail.) In the current report we have adjusted the 1998 data so that you can compare 1998 to 2000. The 1995 survey will be adjusted with new cut-points later this year.

Keep this in mind when you look at previous needs assessments, grant applications, or any other reference to survey data. Also, inform your partners and other people with whom you have shared survey data.

- ❖ There were some **changes in the survey items** that affect the way survey results can be interpreted:
 - Two scales were dropped from the survey: **Transitions and Mobility**, and **Rebelliousness**. Transitions and Mobility is still an important risk factor. Evidence for this risk factor can be collected from schools (or perhaps more conveniently from the ESD) as school building "turnover" rate.
 - The scale for **Community Disorganization** is not complete---there is only a single item from the scale. More analysis will be needed to determine if that single item reflects the risk factor with any precision. That item is not reported here, but is available in the item details from the school district reports.
 - The question for **30-day use of alcohol** changed so much from 1998 to 2000 that they are not comparable. In 1998 the questions was phrased "how many times have you used alcohol (beer, wine, wine coolers, hard liquor)?" In 2000 the questions was "On how many days did you drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?" Initial evidence suggests that the difference in wording has had a significant impact on student responses.
 - **Anti-Social Behavior** scale has been changed from a risk factor to a series of prevalence indicators.
 - Some buildings elected to include **Poor Family Management**, plus two **protective factors in the family domain**. Those are not reflected in the county report but may be available from individual school districts.
- ❖ The 1998 survey was administered in the Spring, the 2000 survey in the Fall. Most researchers expect that there are **seasonal effects** in student surveys, but there is no research that clarifies this effect. Bear this in mind if you see unexpected changes from Spring 1998 to Fall 2000.

Select the risk factors that are too high, protective factors that are too low, and prevalence indicators that are unacceptably high.

- Here are a number of reasons why you may choose to prioritize a particular risk factor, protective factor, or prevalence indicator:
 - One factor or one group of factors may stand out among all the other factors in your profile.
 - Certain risk factors may be higher than the state average, or protective factors much lower.
 - You may see a big change from 1998 to 2000, which you can corroborate from other evidence that represents a trend in the wrong direction.
 - Strongly held values in your community may lead to the selection of a risk factor or a protective factor despite a positive comparison with state data. In other words, being better off than the state does not necessarily mean being fine.
 - In the social development model, certain risk factors are especially important at different points in a child's development. For instance, if there is serious concern about poor academic performance among 8th and 10th graders, you may focus on commitment to school for younger kids, even if that risk factor is not the highest on your profile.



Part Four Student Survey Results



Student Survey Data - County Level

Some of the profiles on the following pages represent a random sample of schools, and some contain results for each grade level that had at least 50% students participation in the survey. 50% should not be construed as valid county level data! Interpret these data with caution.

Nineteen counties have county-level data

Where a sample was drawn and completed (King, Pierce, Snohomish, and 6th grade in Grays Harbor), *sample* data is reported in the county profile. For the fifteen other counties that achieved adequate participation, the responses of all participants are included in the results.

The Validity of County Data – Sample and Census

The extent of survey participation varied widely between counties in the Fall 2000 WSSAHB (Washington State Survey of Adolescent Health Behaviors). Nineteen counties are receiving at least 6th and 8th grade county-level survey results. However, some counties that had good participation will not find county data. For a meaningful county profile, participation must be widespread---from one end of the county to the other.

Because of the interest in county-level data, the research team agreed to a very low threshold for printing county results---50% participation, including more than one school district and more than one of each kind of school. This threshold is much lower than would be required for a *valid* county report---one that can be considered representative. In small counties, valid results require a **census** of students---that is, all schools participate. Base your interpretation on whether or not the student population that participated in the survey represents a cross-section of your county, considering size of building, whether urban or rural, and other important characteristics.

When a *random sample of schools has been successfully surveyed*, county profiles present only the data collected from the sample schools. Complete individual school district data will only be available from the school district offices. Within the county those school districts that have full participation can compare their results to county-level results.

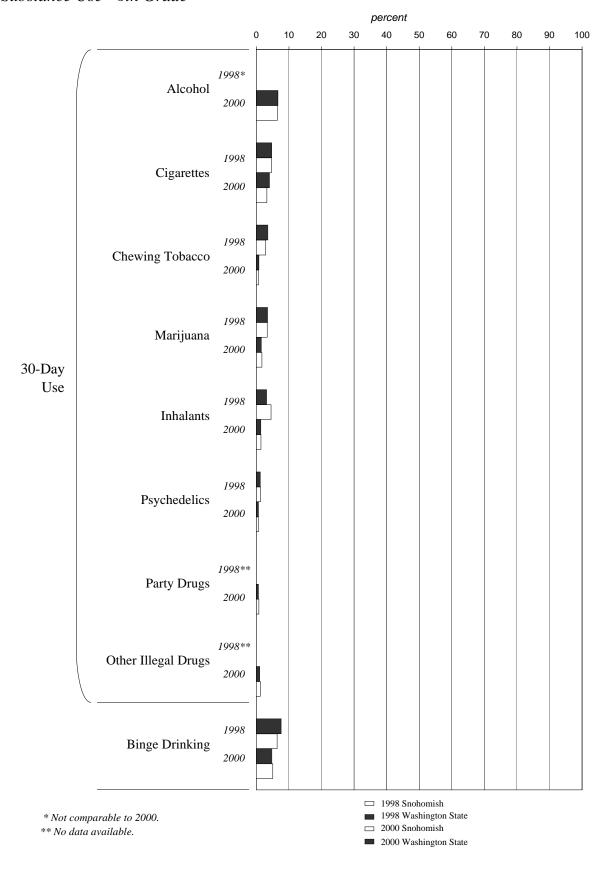
In those counties that had *wide participation at all grades and filled a sample at 6th grade*, the county profile reports only sample data for 6th grade. Data for the other grades include all schools that participated. However, unless all 8th, 10th and 12th graders participated in the survey, these results have some bias. This issue is discussed in the flow chart on survey data.

To achieve county-level reporting in 2002, please note the following:

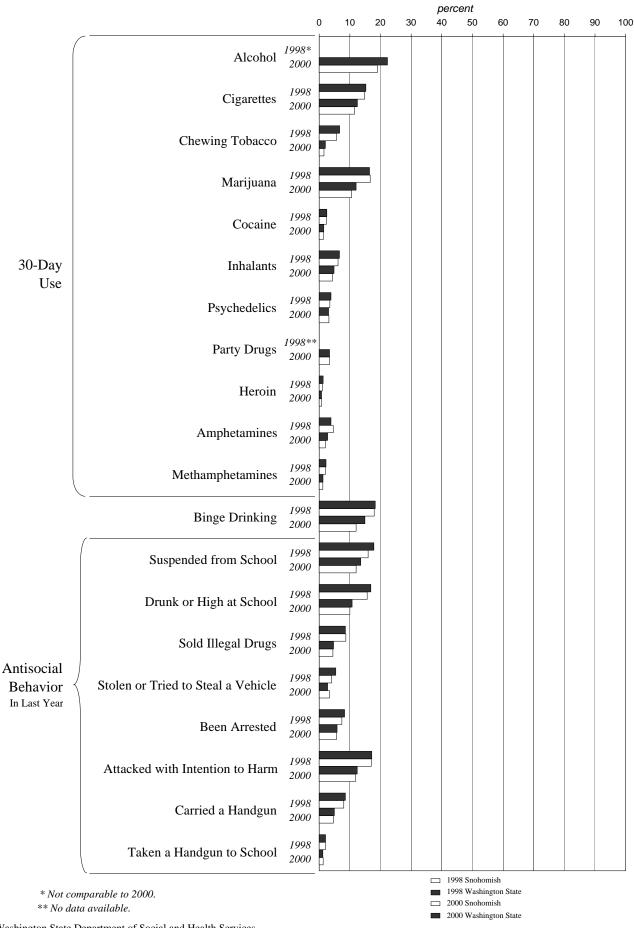
- The **largest counties** have enough schools at all grade levels to survey a random sample of school buildings. The sample is drawn at the same time as the state sample, but recruitment for the sample is a local or county/school district/ESD responsibility.
- Other **large counties** have the possibility of drawing a random sample for elementary schools. This is a bit more complicated where some 6th graders are in middle schools and others in elementary schools.
- Smaller counties must achieve full participation in order to get valid county-level results.

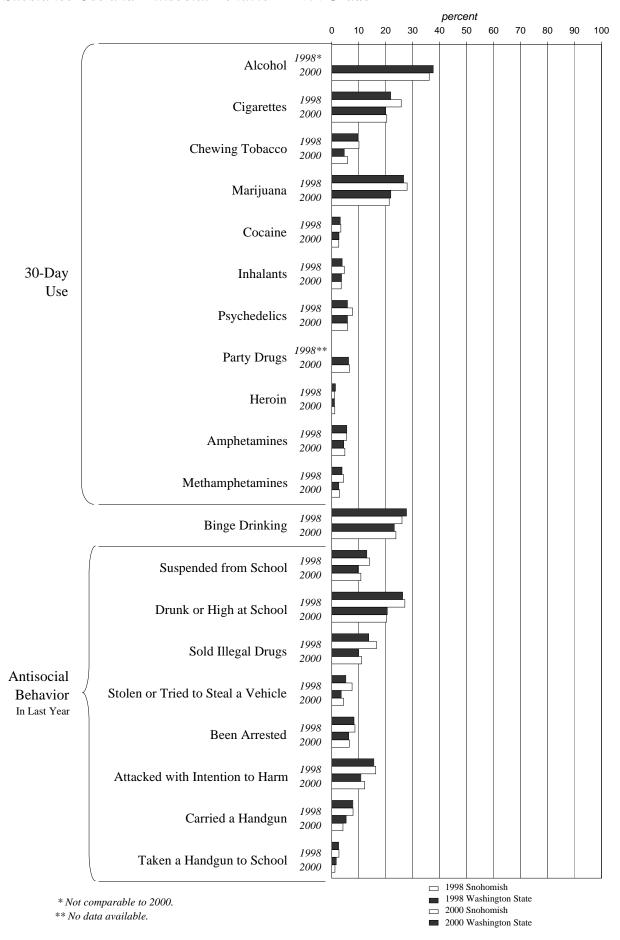
Student Survey Charts Substance Use and Antisocial Behavior

Substance Use - 6th Grade

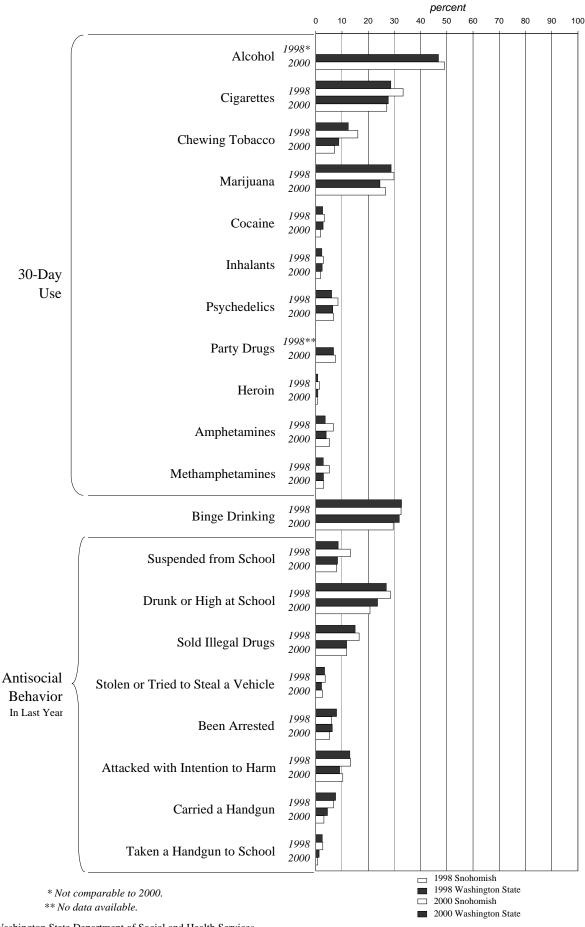


Substance Use and Antisocial Behavior - 8th Grade



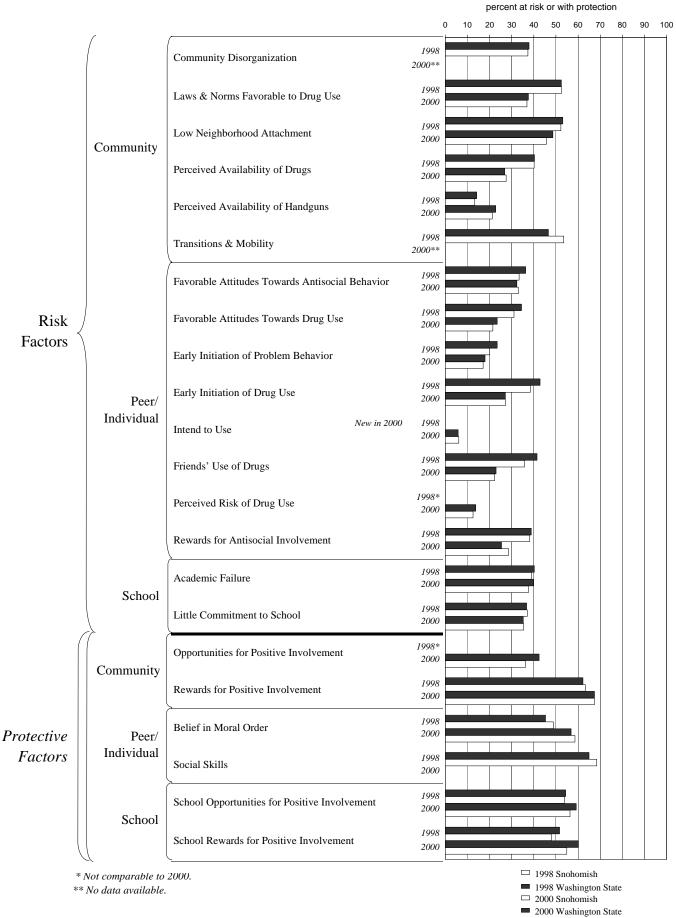


Substance Use and Antisocial Behavior - 12th Grade

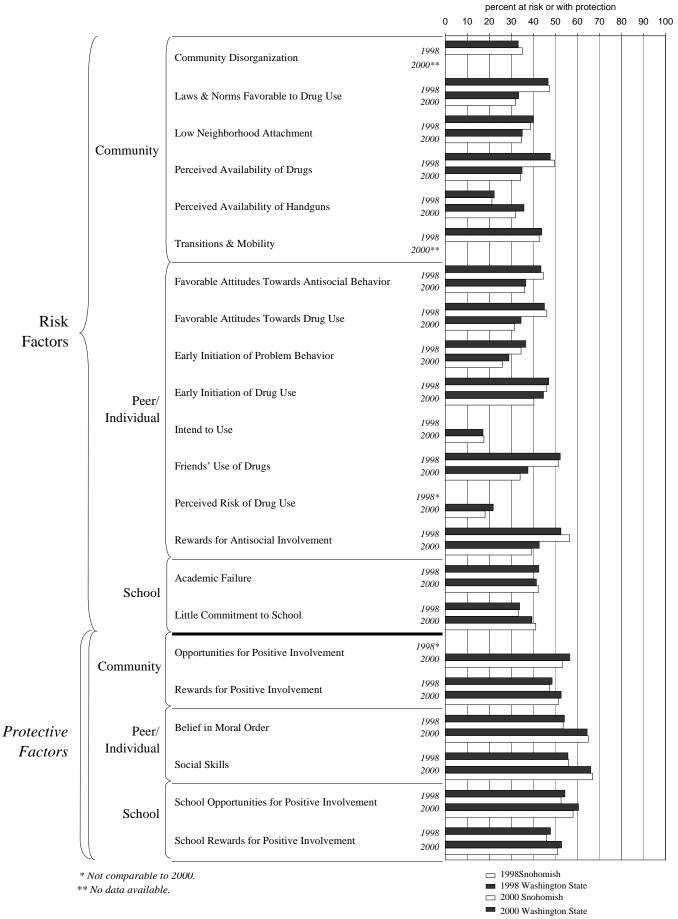


Student Survey Charts Risk and Protective Factors

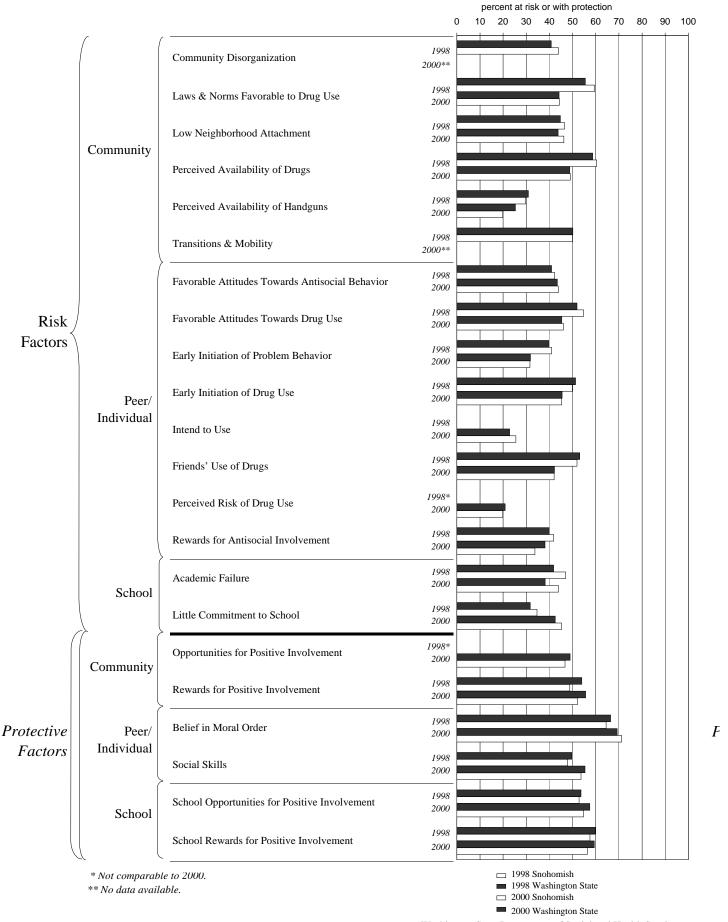
Risk and Protective Factors - 6th Grade



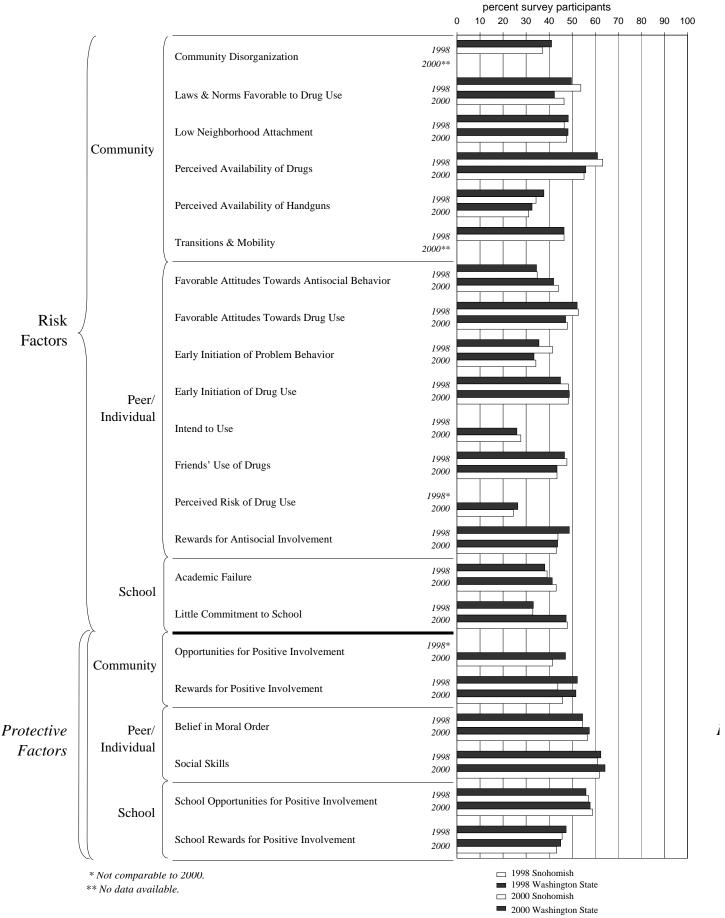
Risk and Protective Factors - 8th Grade



Risk and Protective Factors - 10th Grade



Risk and Protective Factors - 12th Grade



Student Survey Data Tables

Percent of Survey Participants Reporting Substance Use and Antisocial Behavior - 6th Grade

30-Day Use

		,									
Snohomish			lol	ing	ing	uana	ants	Psychedelics	Drugs	- Illegal s	ing
	Grade		Alcohol	Smoking Tobacco	Chewing Tobacco	Marijuana	Inhalants	Psych	Party	Other Drugs	Binge Drinking
1998	6th	State		4.70	3.53	3.45	3.16	1.24			7.60
1998	6th	County		4.63	2.86	3.36	4.51	1.29			6.37
2000	6th	State	6.64	4.05	0.78	1.51	1.38	0.63	0.66	1.05	4.74
2000	6th	County Sample	6.48	3.24	0.64	1.73	1.41	0.64	0.77	1.24	5.06

Percent of Survey Participants Reporting Substance Use and Antisocial Behavior - 8th-12th Grade

Snohom	ish			30-Day Use													Anti-	Social In Last		ior		
		ı		ı	ı					,				/		ı		, ,				
	Grade		Alcohol	Smoking Tobacco	Chewing Tobacco	Marijuana	Cocaine / Crack	Inhalants	Psychedelics	Party Drugs	Heroin	Amphetamines	Methamphetsmines	Binge Drinking	Suspended from School	Drunk or High at School	Sold Illegal Drugs	Stolen or Tried to Steal a Vehicle	Been Arrested	Attacked with Intention to Harm	Carried a Handgun	Taken a Handgun to School
1998	8th	State		15.22	6.66	16.46	2.48	6.63	3.84		1.31	3.85	2.27	18.34	17.84	16.87	8.58	5.41	8.31	17.18	8.57	2.10
1998	8th	County		14.85	5.56	16.67	2.40	6.17	3.51		1.05	4.61	2.06	17.94	15.98	15.64	8.74	4.06	7.39	17.03	8.04	2.05
1998	10th	State		21.83	9.62	26.61	3.17	3.84	5.79		1.36	5.59	3.77	27.71	12.96	26.27	13.72	5.23	8.26	15.59	7.80	2.57
1998	10th	County		25.76	10.07	27.94	3.36	4.62	7.69		0.99	5.49	4.40	26.04	14.02	27.10	16.52	7.51	8.59	16.34	7.86	2.67
1998	12th	State		28.61	12.42	28.72	2.62	2.33	6.04		0.76	3.59	2.89	32.73	8.53	26.90	15.02	3.36	7.91	13.02	7.56	2.48
1998	12th	County		33.33	16.07	29.82	3.23	2.87	8.50		1.44	6.72	5.17	32.53	13.18	28.43	16.52	3.63	6.07	13.32	6.80	2.66
2000	8th	State	22.31	12.50	2.06	12.04	1.50	4.87	3.06	3.40	0.80	2.75	1.25	14.93	13.59	10.77	4.69	2.75	5.82	12.42	4.97	1.18
2000	8th	Sample	19.02	11.56	1.54	10.58	1.45	4.35	3.20	3.46	0.84	2.01	1.18	12.08	12.06	10.02	4.51	3.39	5.63	11.83	4.67	1.32
2000	10th	State	37.58	19.79	4.60	21.88	2.65	3.63	5.82	6.23	0.99	4.47	2.61	23.22	9.72	20.58	9.81	3.52	6.28	10.79	5.35	1.66
2000	10th	Sample	36.12	20.43	5.81	21.31	2.59	3.48	5.82	6.61	1.10	4.84	2.94	23.80	10.79	20.33	11.12	4.34	6.52	12.24	4.18	1.18
2000	12th	State	46.78	27.65	8.77	24.44	2.80	2.43	6.45	6.78	0.82	3.96	2.93	31.83	8.31	23.53	11.78	2.18	6.26	9.12	4.47	1.29
2000	12th	Sample	49.05	27.09	7.22	26.59	1.82	1.74	6.72	7.46	0.58	5.30	3.07	29.53	7.85	20.68	11.72	2.50	5.27	10.29	3.09	0.67

Percent of Survey Participants with Risk or with Protection - 6th through 12th Grade

Snoh	omish			Risk Factors												Protective Factors								
					Comn	nunity						Pe	er				Sch	ool	Comn	nunity	Pe	er	Sch	iool
	Grade		Community Disorganization	Laws & Norms Favorable to Drug Use	Low Neighborhood Attachment	Perceived Availability of Drugs	Perceived Availability Handguns	Transitions & Mobility	Favorable Attitudes Towards Antisocial Behavior	Favorable Attitudes Towards Drug Use	Early Initiation of Problem Behavior	Early Initiation of Drug Use	Intend to Use	Friends' Use of Drugs	Perceived Risk of Drug Use	Rewards for Antisocial Involvement	Academic Failure	Little Commitment to School	Community Opportunities for Positive Involvement	Community Rewards for Positive Involvement	Belief in a Moral Order	Social Skills	School Opportunities for Positive Involvement	School Rewards for Positive Involvement
1998	6th	State	37.80	52.40	53.10	40.30	14.20	46.60	36.30	34.40	23.40	42.80		41.40		38.80	40.20	36.70		62.20	45.30	64.90	54.40	51.60
1998	6th	County	37.30	52.50	52.20	40.10	13.30	53.50	33.30	31.00	20.00	38.40		35.80		38.00	38.90	37.00		63.30	48.80	68.40	53.90	47.90
1998	8th	State	33.20	46.70	40.10	47.70	22.30	43.80	43.40	45.00	36.60	47.00	•	52.20	•	52.50	42.50	33.80		48.50	54.10	55.70	54.30	47.80
1998	8th	County	35.00	47.30	38.70	49.60	21.20	42.60	44.60	46.10	34.40	46.10		51.30		56.50	40.10	33.10		47.40	53.50	56.10	52.60	46.00
1998	10th	State	40.80	55.50	44.70	58.70	30.90	50.10	40.90	51.90	39.70	51.30	•	53.10		39.90	41.80	31.70		54.00	66.40	49.60	53.60	59.80
1998	10th	County	43.90	59.40	46.50	60.40	29.70	50.00	42.20	54.70	40.90	49.90	•	51.90		41.80	47.00	34.60		48.80	64.50	47.90	52.80	57.50
1998	12th	State	41.00	49.60	48.20	60.90	37.70	46.40	34.50	52.10	35.50	44.90		46.60		48.70	38.00	33.10		52.20	54.50	62.40	55.90	47.30
1998	12th	County	37.00	53.70	46.50	63.20	34.30	46.40	34.80	52.60	41.40	48.30		47.70		43.80	39.10	32.90		43.70	54.40	60.90	57.00	45.60
2000	6th	State		37.50	48.58	26.81	22.75		32.34	23.45	17.95	27.11	5.76	22.93	13.77	25.37	39.87	35.20	42.39	67.38	56.82	•	59.15	60.13
2000	6th	County Sample		36.90	45.70	27.50	21.20		33.00	21.50	17.10	27.10	6.10	22.30	12.50	28.60	37.50	35.40	36.20	67.40	58.60		56.30	54.90
2000	8th	State		33.31	35.00	34.87	35.72		36.62	34.39	28.93	44.59	17.13	37.54	21.77	42.68	41.37	39.38	56.54	52.63	64.38	66.07	60.50	52.78
2000	8th	County Sample		31.80	34.50	34.20	31.90		36.10	31.50	26.00	40.20	17.60	34.00	18.10	39.20	42.40	41.10	53.30	51.40	64.90	66.90	58.00	51.00
2000	10th	State		44.14	43.76	48.78	25.32		43.37	45.36	31.78	45.49	22.84	42.18	20.87	38.07	38.14	42.50	48.94	55.65	69.23	55.36	57.41	59.33
2000	10th	County Sample		44.30	46.20	49.00	19.80		43.80	46.00	31.60	45.30	25.50	42.00	19.80	33.70	43.90	45.20	46.70	52.10	71.20	53.60	54.70	56.40
2000	12th	State		42.26	48.18	55.89	32.57		41.92	47.15	33.40	48.73	25.95	43.36	26.39	43.63	41.29	47.30	47.07	51.53	57.36	64.19	57.74	45.00
2000	12th	County Sample	•	46.40	47.60	55.10	31.10	•	43.90	47.90	34.20	48.20	27.70	43.40	24.50	43.00	43.00	47.80	41.40	45.80	56.50	61.70	58.70	43.20

Student Survey Demographics

Number of Survey Participants by School District and Grade - 2000

	61	th	8t	:h	10	th	12	th
County / District Name	Survey Participants	Students Enrolled	Survey Participants	Students Enrolled	Survey Participants	Students Enrolled	Survey Participants	Students Enrolled
Snohomish	5,419	8,481	5,532	8,105	5,313	8,550	3,596	6,576
Arlington	273	382	265	393	259	411	243	322
Darrington	-	57	ı	54	-	57	-	35
Edmonds	616	1,737	1,208	1,685	964	1,919	534	1,350
Everett	932	1,436	918	1,391	927	1,496	603	1,217
Granite Falls	138	203	128	155	113	192	67	121
Index	-	5	-	-	-	-	-	-
Lake Stevens	480	563	392	493	390	538	312	405
Lakewood	143	203	164	209	135	176	2	163
Marysville	608	947	617	900	645	929	414	718
Monroe	388	507	368	521	319	420	226	367
Mukilteo	917	1,109	761	1,026	708	1,037	532	922
Snohomish	554	709	545	679	520	739	433	568
Stanwood-Camano	370	428	166	411	333	472	230	284
Sultan	-	195	1	188	-	164	-	104

Ethnicity: Percent Sample Members Compared to School District Enrollment by Grade - 2000

	Asia	an	Bla	ack	Hispa	anic	Native A	merican	Wł	nite	Other	Unknown
County / District Name	Survey Participants	Students Enrolled	Survey Participants	Survey Participants								
Snohomish	9.3%	7.8%	3.1%	2.5%	4.9%	4.1%	3.8%	2.3%	74.7%	83.3%	0.0%	4.2%
6	8.7%	7.3%	3.5%	2.7%	3.8%	4.7%	6.4%	2.5%	69.6%	82.7%	0.0%	7.9%
8	9.7%	7.4%	3.7%	2.6%	5.7%	4.5%	3.4%	2.3%	73.4%	83.2%	0.0%	4.1%
10	10.0%	8.3%	3.0%	2.4%	5.2%	3.8%	3.2%	2.3%	76.3%	83.2%	0.0%	2.3%
12	8.3%	8.3%	1.8%	2.4%	4.2%	3.1%	2.1%	1.7%	80.9%	84.4%	0.0%	2.7%

Number of Survey Participants by School District and Grade - 1998

	61	:h	8t	:h	10	th	12	th
County / District Name	Survey Participants	Students Enrolled	Survey Participants	Students Enrolled	Survey Participants	Students Enrolled	Survey Participants	Students Enrolled
Snohomish	3,483	7,886	3,006	7,978	1,835	8,300	842	5,934
Arlington	-	351	-	375	-	463	-	246
Darrington	-	56	1	58	-	46	1	46
Edmonds	590	1,679	204	1,734	254	1,967	193	1,312
Everett	911	1,392	886	1,411	177	1,395	45	960
Granite Falls	121	159	86	146	90	149	57	98
Index	-	6	-	-	-	-	-	-
Lake Stevens	-	484	-	496	-	450	-	347
Lakewood	153	205	129	190	81	196	82	138
Marysville	-	879	-	895	-	855	-	687
Monroe	303	474	325	373	149	472	106	319
Mukilteo	867	977	837	1,028	601	997	8	860
Snohomish	538	670	539	681	483	787	351	498
Stanwood-Camano	-	402	-	420	-	376	-	304
Sultan	-	152	-	171	-	147	-	119

Ethnicity: Percent Survey Participants Compared to Enrollment by School District - 1998

	As	ian	Bla	ck	Hisp	anic	Native A	merican	Wł	nite	Other	Unknown	County/ D	istrict Total
County / District Name	Survey Participants	Students Enrolled	Survey Participants	Survey Participants	# Survey Participants	# Students Enrolled								
Snohomish	7.2%	7.3%	2.5%	2.3%	4.4%	3.5%	2.7%	2.1%	68.4%	84.7%	10.7%	4.1%	9,166	30,098
Arlington		2.6%		0.8%		2.9%		1.4%		92.3%				1,435
Darrington		0.5%		0.5%		1.0%		3.9%		94.2%				206
Edmonds	9.3%	11.5%	2.6%	3.8%	5.3%	3.8%	3.5%	1.8%	62.5%	79.1%	11.9%	4.8%	1,241	6,692
Everett	8.4%	9.9%	3.1%	3.1%	4.6%	3.5%	3.3%	1.8%	63.0%	81.7%	12.3%	5.3%	2,019	5,158
Granite Falls	0.6%	0.7%	1.1%	0.2%	4.0%	2.4%	3.1%	1.8%	77.1%	94.9%	9.9%	4.2%	354	552
Index										100.0%				6
Lake Stevens		2.9%		1.0%		3.5%		1.2%		91.4%				1,777
Lakewood	3.8%	4.0%	2.0%	1.4%	6.1%	3.6%	2.2%	1.0%	67.2%	90.1%	12.8%	5.8%	445	729
Marysville		4.3%		1.5%		3.4%		7.1%		83.7%				3,316
Monroe	2.6%	2.3%	1.0%	0.3%	2.5%	3.8%	1.7%	1.2%	81.5%	92.4%	7.5%	3.2%	883	1,638
Mukilteo	12.4%	13.3%	3.9%	4.0%	5.4%	4.7%	3.0%	1.3%	60.2%	76.7%	12.1%	3.0%	2,313	3,862
Snohomish	2.4%	2.8%	1.0%	0.5%	2.9%	2.6%	1.7%	0.5%	80.4%	93.5%	7.7%	3.9%	1,911	2,636
Stanwood-Camano		1.9%		0.4%		2.4%		1.2%		94.1%				1,502
Sultan		2.0%		0.5%		2.7%		2.5%		92.2%				589

Appendices



Appendix One Technical Notes

Archival Indicators

Collaborative

Community Readiness (see Readiness)

Comprehensive Prevention Plan

Correlation

Counties-Like-Us (CLU)

Cut Points

Data for Social Indicators (see Valid Data....)

Evaluation

Evidence-Based Prevention

Logic Model

Needs Assessment

Outcomes

Rates

Readiness

Research-Based/Science-Based Prevention Program

Resource Assessment

Risk and Protective Factors (see Validation Scales)

Significance

Social Indicators (see Valid Data for Social Indicators)

Standardized Scores and Summary Measures

Summary Measure

Valid Data for Social Indicators

Validation Scales for Student Survey Risk and Protective Factors

Archival Indicators

Archival indicators are those that already exist---they are collected by government agencies as part of routine data collection. Our database contains archival indicators that have been <u>validated</u> by research that has shown them to be good proxy measures for risk factors. For instance, the local health department does not have a statistic for "family management problems", so researchers found archival indicators that would seem to be conceptually related to family management, and then tested them to see if they correlated with adolescent substance use. (See "Correlation" below.) In this case, the proxy indicators are children in foster care, children living away from parents, and victims in accepted child abuse referrals.

Collaborative

Separate entities working together and sharing resources to accomplish a common purpose. Coalitions are sometimes also called partnerships or collaboratives.

Community Readiness

see "Readiness"

Comprehensive Prevention Plan

A long-term plan designed to prevent ATOD use and abuse. It must be based on a needs assessment, resource assessment, and a prioritization of unmet needs. Strategies are selected to target multiple domains, aimed at institutional policies (for instance, policies affecting youth access to alcohol) community norms, families, schools, peer groups and high-risk individuals. The strategies are described in the plan, and performance targets and outcome objectives are defined.

Correlation

Statistical correlation is a measure of the relationship or association between variables: if, when the value of one variable changes, another one changes in a predictable way, the two variables are correlated. The CORE-GIS uses archival risk factor indicators that are statistically correlated to corresponding risk factors and actual substance use as measured by the student survey.

The strength of correlation is usually described with correlation coefficients, represented with an r. We are not reporting on those correlation coefficients in this county profile. That research was done in conjunction with the Social Development Research Group and five other states. The results of the research that led to the current set of archival indicators is reported in Hawkins, David, Michael Arthur and Richard Catalano, 1997, "Six State Consortium for Prevention Needs Assessment Studies: Alcohol and Other Drugs – Final Report." National Institute on Drug Abuse.

For a friendly primer on correlation and other prevention statistics, go to Prevention On Line, research briefs, and look for "Prevention Statistics Made Easy: Understanding Correlation, Explained Variance, and Causation." The URL is www.health.org/pubs/corella2.htm.

Counties Like Us

Knowing that your county has a particular rate for one of the indicators----say, number of tobacco sales licenses---does not help you evaluate the importance of that indicator to your risk profile. You do not know if it is higher or lower than you could reasonably expect. County rates can be compared to the state rate, which is the average for the whole state, and to other counties. However, the most populated counties heavily influence the state rate. Therefore the comparison we present is for a group of counties that are similar in characteristics related to prevention planning: population of young people (aged 10-24), the percentage of deaths in the county that are alcohol and drug-related, and a simple geographic division into Eastern and Western Washington. For each indicator the Counties Like Us rate is the average rate across all of the counties in the cluster. The groupings for "Counties Like Us" are as follows:

*Urban A** – King County

*Urban B** - Pierce, Snohomish, and Spokane

Urban C - Benton, Clark, Kitsap, Thurston, Whatcom, and Yakima

Rural A - Ferry, Franklin, Grant, Klickitat, Okanogan, Pend Oreille, and Skamania

Rural B - Adams, Asotin, Chelan, Columbia, Douglas, Garfield, Kittitas, Lincoln, Stevens, Walla, and Whitman

Rural C - Clallam, Cowlitz, Grays Harbor, Island, Jefferson, Lewis, Mason, Pacific, San Juan, Skagit, Wahkiakum

* For comparison, King County is compared to Urban B, but average scores for the indicators in Urban B do not include King County.

[For a detailed explanation of how these Counties Like Us Groupings were made, see Appendix H in the 1996 County Profile.]

Cut-Points

Student survey data tables on pages 76-79 report the percent of students with elevated risk factors. These results are based on an analysis developed by researchers at the University of Washington that offers a standardized approach to calculating "percent at risk" and "percent with protection". The state survey steering committee elected to employ this analysis for the Fall 2000 survey, and to apply it retrospectively to the 1998 data.

On the survey questionnaire, a scale measures each risk and protective factor; a scale is made up of a number of questions that relate to each factor. The frequency of response to each individual question has of course not changed. What changed in the new analysis is the interpretation of all the items together---the interpretation of the scale. The analysis of each scale predicts whether an individual student is at risk, or is protected, for that particular factor.

The point on a scale at which a student's response predicts substance use is called the cut-point. The cut-point on a risk factor scale divides those students who are more at risk from those less at risk. The researchers based their analysis on data from over 200,000 surveys across seven states. Based on this analysis, it was possible to select two groups of youth, one that was more at risk for problem behaviors and another group that was less at risk or that had high levels of protection. A cut-point score

was determined for each protective and risk factor scale that best divided the youth from the two groups, the less-at-risk/more protected from the more-at-risk.

The criteria for selecting the more at-risk and the less at-risk groups included:

- academic grades (the less at-risk group received A's and B's, the more at-risk group D's and F's),
- alcohol, tobacco and other drug use (the more at-risk group had more regular use, the less at-risk had no drug use and use of alcohol or tobacco on only a few occasions), and
- antisocial behavior (the more at-risk group has two or more delinquent acts in the past year, the less at-risk group had no delinquent acts).

The "percent with protection" (or percent resilient) and the "percent at risk" can be used to monitor the results of a comprehensive prevention program.

Evaluation

Outcome Evaluation

Focused research questions that determine the effects of interventions on a program's intended outcomes or goals. The evaluation helps determine whether a program changed the knowledge, attitudes, or behavior of a specified set of program participants (target population). It answers the question: "Did the anticipated change occur?"

Process Evaluation

A set of research questions that deal with the implementation, structure and operation of program interventions. Process evaluation should be continuous and ongoing. The target population, the content of program strategies, program inputs including staff, materials, timing, intensity, duration, service settings and other resources are all measured and described to determine if the program procedures were conducted according to a written plan. Process evaluation is geared toward program improvements, and may offer clues as to why certain outcomes were or were not achieved.

<u>Evidence-based prevention</u> in the context of substance abuse prevention includes strategies or programs that have shown through some level of evidence that they are effective. These programs have not been subjected to as rigorous an evaluation as are those that are classified as science-based.

Logic Model

Provides an overall view of a prevention program and the theory behind it. Some logic models require the selection of process and outcome measures, and measurement indicators. Depending on how much management information in included, a logic model can demonstrate the relative importance of a program's inputs, activities and outputs, which helps to guide resource allocation.

Needs Assessment

A process of gathering the basic information needed to identify problems, existing programs and resources, and gaps between the two. Specifically, it is a rational approach to carefully collect, analyze, and interpret risk and protective factor data to inform policy and program planning. Objective social indicator and survey data is used to quantify and describe the unique risk and protective factors operating in a community, rather than relying on opinion, prejudices, or historical practices.

Outcomes

Results of an implemented action or strategy. Outcomes are measurable changes observed on indicators related to specific program goals and objectives.

Rates: why is "raw data" converted to rates?

In order to make comparisons between counties and the state, and between counties that have different sizes, we use *rates* to describe an event in terms of a standard size population---either "per 100 people" (percent), "per 1,000 people" or "per 100,000 people". For instance, what does it mean if County A has 42 alcohol retail licenses, and County B has 399? Does it mean that based on this indicator, the risk factor (*Availability*) is much higher in County B than it is County A? No, not if County B is a much bigger county. If County B is bigger, then the "rate" of liquor licenses per population might be the same or even lower. The only way to compare them is to convert the raw numbers to rates, based on the same population factor. For instance:

County A: # of licenses – 42, # of persons (all ages) – 14, 297 County B: # of licenses – 399, # of persons (all ages) – 186,185 To calculate the $\it rate\ per\ 1,000$:

42 / 14,297 = .002937 .002937 X 1,000 = 2.94 399 / 186,185 = .002143 .002143 X 1,000 = 2.14

So the rate of alcohol retail licenses is 2.94 per 1,000 people in County A, and 2.14 per 1,000 people in County B.

Readiness

- The degree of support for or resistance to identifying substance use and abuse as significant social problems in a community.
- The degree to which the community has the potential to actually realize success in planning, implementing and sustaining effective prevention and intervention strategies, practices and programs.

Research-Based/Science-Based Prevention Program

Science-based prevention programs have a strong theoretical design and extensive evaluation. In a peer-reviewed journal, a researcher has proven that the effects of the program can be clearly linked to the program itself and not to extraneous event. Conceptual or exact replications of a program and its evaluation add credibility to findings as being effective.

Resource Assessment

A systematic approach to examining the services, capacities and external assets available in a community that can help to reduce risk factors and increase protective factors. It answers the question: "What is being done to prevent ATOD use and abuse in our community?"

Significance

Statistical significance measures the likelihood that a particular relationship between variables is not due to chance alone. This is relevant when a measure is drawn from a sample rather than from the whole population.

The level of statistical significance does not explain the magnitude of importance—that is a different question, not a statistical one. In substance abuse prevention planning, the importance of a behavior or condition and its measure relates to the behavior's role in the development of substance use (as explained by the social development model), the susceptibility of the behavior or condition to change, and the availability of strategies or resources to effect change.

Social Indicators (see Valid Data for Social Indicators)

Standardized Scores and Summary Measures

Each individual risk factor is measured by more than one indicator. An individual indicator by itself is interesting because you can compare your county's rate for that indicator to all other counties, and to the state. But it is more difficult to compare all the indicators for one risk factor to each other---that's like comparing apples and oranges. For instance, you cannot compare the number of people voting in the last election to the number of residential vacancies---this would not be meaningful. And, since we cannot add those two indicators together---they do not have a common denominator---we cannot average the indicators together to determine the average level of risk for the risk factor *Low Neighborhood Attachment and Community Disorganization*.

You can compare and average rates by first finding out how much each individual indicator rate varies from some common point, and the point we use is the average rate for the state. In more technical terms, we transform the original absolute rates to a common scale of measure: the relative deviation from the state mean. This is called a **standardized score**, and is based on the mathematical calculation of the standard deviation. For a particular indicator, the county with the highest absolute rate (say, for alcohol retail licenses), will have the highest standardized measure. A standardized score of 1.2, for instance, means that the county's rate is 1.2 standard measures (or standard deviations) above the state rate, and a –1.2 would be 1.2 standard measures *below* the state rate. Approximately 95% of the state will fall between +2 and –2 standard measures.

Once we have standardized all of the rates for a particular risk factor, we can find the average of the standardized scores to come up with an average value for the risk factor. This is called a **summary measure**. To stay with the same example, we find the average of the standardized scores for tobacco retail sales licenses and liquor

sales licenses to come up with one summary measure for the risk factor *Availability of Drugs*. For instance, if the standardized score for alcohol retail licenses is -.31, and the standardized score for tobacco sales licenses is -.26, the standardized *summary* measure is -.31 plus -.26, divided by 2, or -.29. This means that the summary measure for the risk factor *Availability of Drugs* is .29 below the state average rate for that risk factor.

Valid Data for Needs Assessment

Data: Information collected according to a methodology using specific research methods and instruments.

Reliability: The extent to which a measure produces the result time after time, no matter who collects or under what circumstances.

Validity: In evaluation, the extent to which a measure of a particular idea or theory reflects a program's intent. More generally, does the measure for a construct truly reflect that construct?

Qualitative Data: Contextual information gathered by observation, focus groups, open-ended interviews or textual analysis, and reported as text rather that as numbers. The strength of qualitative data are their ability to shed light on human affairs, processes and ideas.

Quantitative Data: In prevention, measures that capture levels of prevalence, changes in levels of prevalence, and intervening variables. The strength of quantitative data is their use in measuring change.

Key questions to ask before choosing social indicators for needs assessment:

- 1. How closely do these data fit your informational needs? What type of inferences might you have to make?
- 2. How have these data been obtained and maintained? What is their quality? How reliable are they?
- 3. What kinds of safeguards should you observe to guarantee the confidentiality of records?
- 4. Can you adapt or change the data keeping procedures? Or, can you develop and implement a new data gathering system?

Validated Survey Scales for Risk and Protective Factors, Aligned with Archival Social Indicators

	Fall 2000 Student Survey	Winter 2001 Archival
"Original" Risk Factor	Scales	(Social) Indicators
and Protective Factor	* These scales were optional, and	Indicators from the 1990 Census
Names	are only available in local reports.	were dropped from 2001 County
	[] Scales in brackets not available	Report. These will be reconsidered
	on WSSAHB.	when new data are available.

	Community Domain Ris	sk Factors
Availability of Drugs	Perceived Availability of Drugs	Alcohol sales outlets
Availability of Firearms	Perceived Availability of Handguns	Tobacco sales licenses
Community Laws and	Laws and Norms Favorable to Drug Use	
Norms Favorable Toward		
Drug Use		
Transitions and Mobility	[Transitions & Mobility]	Net migration
	NOTE: Previous versions of the survey	New home construction
	had two scalescommunity and	Households living in rental
	personal transitions and mobility	properties
Low Neighborhood	Low Neighborhood Attachment	Population not voting in elections
Attachment and Community	[Community Disorganization—NOTE:	Population not registered to vote
Disorganization	Part of this scale appeared as item 16 on Fall 2000 WSSAHB.]	Prisoners in state and local correctional systems
Extreme Economic		Unemployment
Deprivation		Free and reduced lunch program
		Children in aid to families programs
		Food stamp recipients
		Low birth weight babies born

Community Domain Protective Factors								
Opportunities for Positive	Opportunities for Prosocial Involvement							
(Prosocial) Involvement	This scale was significantly altered.							
Rewards for Positive	Rewards for Prosocial Involvement							
(Prosocial) Involvement								

	Family Domain Risk Factors								
Family Conflict	[Family Conflict]	Divorce							
		Domestic violence arrests							
Family History of Problem	[Family History of Antisocial Behavior	Adults in alcohol and other drug							
Behavior	NOTE: Part of this scale appeared on	treatment programs							
	Fall 2000 WSSAHB.]	Alcohol- and Drug-Related Deaths							
Family Management	*Poor Family Management	Children living in foster care							
Problems		Children living away from parents							
		Victims in accepted child abuse							
		referrals							
Parental Attitudes and	[Parental Attitudes Favorable toward								
Involvement in Drug Use,	Drug Use]								
Crime and Violence	[Parental Attitudes Favorable Toward								
	Antisocial Behavior]								

"Original" Risk Factor and Protective Factor Names

Fall 2000 Student Survey Scales

* These scales were optional, and are only available in local reports.

[] Scales in brackets not available on WSSAHB.

Winter 2001 Archival (Social) Indicators

Indicators from the 1990 Census were dropped from 2001 County Report. These will be reconsidered when new data are available.

Family Domain Protective Factors							
Bonding: Attachment	[Family Attachment]						
Opportunities	*Opportunities for Prosocial						
	Involvement						
Recognition	*Rewards for Prosocial Involvement						

School Domain Risk Factors				
Lack of Commitment to School	Low Commitment to School	High school dropouts		
Academic Failure Beginning in Elementary School	Academic Failure	Poor academic performance, Grade 4 Poor academic performance, Grade 8		

School Domain Protective Factors				
Opportunities	Opportunities for Prosocial Involvement			
Recognition	Rewards for Prosocial Involvement			

Individual/Peer Domain Risk Factors		
Alienation/Rebelliousness	[Rebelliousness]	
Early & Persistent Antisocial	NOTE: Antisocial Behavior became a	
Behavior	Prevalence/Outcome indicator.	
Friends Who Engage in	Friends' Use of Drugs	
Problem Behavior	[Interaction with Antisocial Peers]	
Favorable Attitudes toward	Favorable Attitudes toward Drug Use	
Problem Behavior	Perceived Risks of Drug Use	
	Favorable Attitudes toward Antisocial	
	Behavior	
	Rewards for Antisocial Involvement	
	[Gang Involvement]	
	Intention to Use	
Early Initiation of Problem	Early Initiation of Drug Use	Alcohol- and drug-related arrests, age
Behavior	Early Initiation of Problem Behavior (or	10-14
	Anti-Social Behavior)	Property crime arrests, age 10-14
		Vandalism arrests, Age 10-14
Constitutional Factors	[Sensation Seeking]	

Peer/Individual Protective Factors				
Healthy Beliefs and Clear	Belief in the Moral Order			
Standards	[Religiosity]			
Skills	Social Skills (not on 6 th grade form)			

Appendix Two Glossary of Archival Indicators

Adult Alcohol-Related Arrests

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of adults (age 18 and over) for alcohol violations, per 1,000 adults. Alcohol violations include all crimes involving driving under the influence, liquor law violations, and drunkenness. DUI arrests by the WSP (29% of all Adult Alcohol-related Arrests) are included in the state trend analysis. However, they are not included in the county rankings since WSP arrests are not assigned to counties. The smallest available geography is police jurisdiction.

Adult Drug-Related Arrests

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of adults (age 18 and over) for drug law violations, per 1,000 adults. Drug law violations include all crimes involving sale, manufacturing, and possession of drugs. The smallest available geography is police jurisdiction.

Adult Drunken Driving Arrests

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

Adults (age 18 and over) arrested for driving under the influence (DUI) per 1,000 adults (age 18 and older). The smallest available geography is police jurisdiction.

Adult Property Crime Arrests

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of adults (age 18 and over) for property crimes, per 1,000 adults. Property crimes include all crimes involving burglary, larceny-theft, motor vehicle theft, and arson. The smallest available geography is police jurisdiction.

Adult Violent Crime Arrests

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of adults (age 18 and over) for violent crimes, per 1,000 adults. Violent crimes include all crimes involving criminal homicide, forcible rape, robbery, and aggravated assault. Simple assault is not defined as a violent crime. The smallest available geography is police jurisdiction.

Adults in Alcohol and Drug Treatment

Department of Social and Health Services, Division of Alcohol and Substance Abuse, Treatment and Assessment Report Generation Tool (TARGET)

The annual number of adults (age 18 and over) admitted or assessed in state-funded alcohol or drug treatment programs, per 1,000 adults. Counts of adults are unduplicated so that those in treatment more than once during the year are only counted once for that year. The smallest available geography is zipcode.

Alcohol and Drug Treatment, Age 10-17

Department of Social and Health Services, Division of Alcohol and Substance Abuse, Treatment and Assessment Report Generation Tool (TARGET)

The annual number of adolescents (age 10-17) admitted or assessed in state-funded alcohol and other drug treatment programs, per 1,000 adolescents (age 10-17). Adolescents admitted to treatment more than once during the year were only counted once for that year. The smallest available geography is zipcode.

Alcohol- and Drug-Related Arrests, Age 10-14

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of adolescents (age 10-14) for alcohol and drug law violations, per 1,000 children (age 10-14). Alcohol violations include all crimes involving driving under the influence, liquor law violations, and drunkenness. For children, arrests for liquor law violations are usually arrests for minor in possession. Drug law violations include all crimes involving sale, manufacturing, and possession of drugs. The smallest available geography is police jurisdiction.

Alcohol- and Drug-Related Deaths

Department of Health, Center for Health Statistics, Death Certificate Data File

The annual number of deaths, with alcohol- or drug-related deaths, per 1,000 deaths. For a complete explanation of the codes and methods used please see Appendix B: Counting AOD Deaths in the 1997 Profile on Risk and Protection for Substance Abuse Prevention Planning in Washington State, available at http://www-app2.wa.gov/dshs/rda/. The smallest available geography is zipcode.

Alcohol Retail Licenses

Washington State Liquor Control Board, Annual Operations Report

The number of alcohol retail licenses active during the year, per 1,000 persons (all ages). Retail licenses include places such as restaurants, grocery stores, and wine shops that sell alcohol and do not include liquor stores and agencies. The smallest available geography is county.

Alcohol-Related Traffic Fatalities

Washington State Patrol, Records Section, Traffic Collisions in Washington State, Accident Records Database

The annual number of alcohol-related traffic fatalities, per 100 traffic fatalities. "Alcohol-related" means that the officer on the scene determined that at least one driver involved in the accident "had been drinking." Thus, "Alcohol-related" includes but is not limited to the legal definition of driving under the influence. The smallest available geography is county.

Alcohol Violation Arrests, Age 10-17

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of juveniles (age 10-17) for alcohol violations, per 1,000 juveniles (age 10-17). Alcohol violations include all crimes involving driving under the influence, liquor law violations, and drunkenness. For juveniles, arrests for liquor law violations are usually arrests for minor in possession. The smallest available geography is police jurisdiction.

Births, Mother's Age 10-17

Department of Health, Center for Health Statistics, Birth Certificate Data File

The annual number of live births to females (age 10-17) per 1,000 females (age 10-17). The smallest available geography is zipcode.

Children in Aid to Families Programs

Department of Social and Health Services, Research and Data Analysis, Automated Client Eligibility System and Warrant Roll

The annual number of children (age birth-17) participating in Aid to Families (AFDC/TANF) programs in the month of April, per 1,000 children (age birth-17). April was selected as the month with an average number of recipients. The smallest available geography is zipcode.

Children in Foster Care

Department of Social and Health Services, Research and Data Analysis, CORE-GIS, Foster Care Files

The annual average monthly number of children (age birth-17) in state-paid, family-based foster care or guardianship; regardless of parental rights termination or length of care; per 1,000 children (age birth-17), per year. The smallest available geography is zipcode.

Divorces

Department of Health, Center for Health Statistics, Dissolution and Annulment Data The annual number of divorces per 1,000 adults (age 15 and over). Divorce includes dissolutions, annulments, and unknown decree types; it does not include legal separations. Divorce data is reported by the woman's residence, if in Washington at the time of decree. If the woman lived outside Washington, the man's residence was used. If both parties lived out of state, the county of decree was issued. The smallest available geography is self-reported city.

Domestic Violence Arrests

Washington State Patrol, Identification and Criminal History Section, Domestic Violence-Related Arrests File

The annual number of domestic violence-related arrests, per 1,000 adults. Domestic violence includes any violence of one family member against another family member. Family can include spouses, former spouses, parents who have children in common regardless of marital status, adults who live in the same household, as well as parents and their children. The smallest available geography is county.

Drug Law Violation Arrests, Age 10-17

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of juveniles (age 10-17) for drug law violations, per 1,000 juveniles (age 10-17). Drug law violations include all crimes involving sale, manufacturing, and possession of drugs. The smallest available geography is police jurisdiction.

Existing Home Sales

Washington Center for Real Estate Research, Washington State University, Washington State's Housing Market: A Supply/Demand Assessment

The annual number of previously-owned homes sold, per 1,000 persons (all ages). Previously-owned homes sold is rounded to the tens. Existing homes sold are estimated based on data from multiple listing services, firms that monitor deeds, and local Realtors associations. The smallest available geography is county.

Food Stamp Recipients

Department of Social and Health Services, Research and Data Analysis, Automated Client Eligibility System and Warrant Roll

The annual number of persons (all ages) receiving food stamps in the month of April, per 1,000 persons (all ages). April was selected as the month with an average number of recipients. The smallest available geography is zipcode.

Free and Reduced Lunch Program

Office of Superintendent of Public Instruction, Child Nutrition, Free and Reduced Price Lunch

The annual number of students in public schools (K-12) whose applications have been approved for free and reduced price lunch programs, per 100 students enrolled in public schools (K-12). Children are eligible for free lunches if their family income is at or below 130% of the federal poverty level or for reduced price lunches if their family income is at or below 185% of the federal poverty level. The smallest available geography is school district.

High School Dropouts

Office of Superintendent of Public Instruction, Information Services, School Dropout Files The annual number of students (grades 9-12) who dropped out of school in a single year without completing high school, per 100 students (grades 9-12) enrolled in school in May. The smallest available geography is school district.

Low Birthweight Babies Born

Department of Health, Center for Health Statistics, Birth Certificate Data File

The annual number of babies born with low birthweight, per 1,000 live births. Low birthweight is less than 2,500 grams. The smallest available geography is zipcode.

Net Migration

Office of Financial Management, Net Migration Data

Net migration is the annual number of new residents that moved into an area minus the number of residents that moved out of an area. Net migration does not include numbers of births and deaths within an area. Calculating a 5-year moving average smoothes net migration. Annual net migration estimates are summed for 5-year ranges then averaged to calculate the numerator. The median year of the average is used for the population denominator and the year label for the 5-year moving average net migration value. A factor of 1,000 is used to calculate the 5 year moving average net migration per 1,000 population. The smallest available geography is county.

New Residence Construction

Washington Center for Real Estate Research, Washington State University, Washington State's Housing Market: A Supply/Demand Assessment

The annual number of new building permits issued for single and multi-family dwellings, per 1,000 persons (all ages). Each unit in a multi-family dwelling (for example, each apartment in a building) has a separate building permit. The smallest available geography is zipcode.

Poor Academic Performance, Grade 4

Office of Superintendent of Public Instruction, Instructional Programs, Curriculum and Assessment, Grade 4 Low Quartile Test File

The annual number of fourth graders whose Battery test score was in the lowest 25% compared to the national norm group, per 100 fourth graders who took the Battery test. The Battery test score is the average of the scores on the reading, language, and math portions of the Comprehensive Tests of Basic Skills. The smallest available geography is school district.

Poor Academic Performance. Grade 8

Office of Superintendent of Public Instruction, Instructional Programs, Curriculum and Assessment, Grade 8 Low Quartile Test File

The annual number of eighth graders whose Battery test score was in the lowest 25% of the national norm group, per 100 eighth graders who took the Battery test. The Battery test score is the average of the scores on the reading, language, and math portions of the Comprehensive Tests of Basic Skills. The smallest available geography is school district.

Population Not Registered to Vote

Office of the Secretary of State, Elections Division, Registered Voters

The annual number of persons not registered to vote in the November elections, per 100 adults (age 18 and over). The smallest available geography is county.

Population Not Voting in Elections

Office of the Secretary of State, Elections Division, Voting Records

The annual number of registered voters who do not vote in the November election, per 100 registered voters. The smallest available geography is county.

Prisoners in State Correctional Systems, Age 18+

Department of Corrections, Inmates File

The annual number of adult (age 18 and over) admissions to prison, per 100,000 persons (all ages). Admissions include new admissions, re-admissions, community custody inmate violations, and parole violations. Counts of admissions are duplicated so that individuals admitted to prison more than once in a year are counted each time they are admitted. The admissions are attributed to the county where the conviction occurred. The smallest available geography is county.

Property Crime Arrests, Age 10-14

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of children (age 10-14) for property crimes, per 1,000 children (age 10-14). Property crimes include all crimes involving burglary, larcenytheft, motor vehicle theft, and arson. The smallest available geography is police jurisdiction.

Property Crime Arrests, Age 10-17

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of juveniles (age 10-17) for property crimes, per 1,000 juveniles (age 10-17). Property crimes include all crimes involving burglary, larceny-theft, motor vehicle theft, and arson. The smallest available geography is police jurisdiction.

Sexually Transmitted Diseases, Birth-19

Department of Health, Sexually Transmitted Disease (STD) Services, Sexually Transmitted Disease Reported Cases

The annual number of reported cases of gonorrhea, syphilis, or chlamydia in adolescents (age birth-19) per 1,000 adolescents (age birth-19). The smallest available geography is self-reported city.

Suicide and Suicide Attempts, Age 10-17

Department of Health, Office of Hospital and Patient Data Systems, Comprehensive Hospital Abstract Reporting System (CHARS) and Department of Health, Center for Health Statistics Death Certificate Data

The annual number of adolescents (age 10-17) who committed suicide or were admitted to the hospital for suicide attempts, per 100,000 adolescents (age 10-17). Suicides are based on death certificate information. Suicide attempts are based on hospital admissions, but do not include admissions to federal hospitals. The smallest available geography is zipcode.

Tobacco Sales Licenses

Department of Health (from the Department of Licensing), Tobacco Prevention Program, Tobacco Statistics

The annual number of tobacco sales licenses current in the month of November, per 1,000 persons (all ages). Tobacco sales licenses include tobacco retailer licenses (stores that sell tobacco products) and tobacco vending machines. November counts are selected as representative of the average yearly number of retailers. The smallest available geography is county.

Unemployment

Employment Security Department, Labor Market and Economic Analysis, County Unemployment File

The annual number of unemployed persons (age 16 and over) per 100 persons in the civilian labor force. Unemployed persons are individuals (age 16 and over) who have actively looked for work, are currently available for work, and do not have a job. The civilian labor force includes persons (age 16 and over) who are working or looking for work. The smallest available geography is county.

Vandalism and Conduct Type Arrests, Age 10-17

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of juveniles (age 10-17) for curfew, loitering, vandalism, and disorderly conduct, per 1,000 juveniles (age 10-17). The smallest available geography is police

Vandalism Arrests, Age 10-14

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of adolescents (age 10-14) for vandalism (including residence, non-residence, vehicle venerated objects, police cars, or other) per 1,000 children (age 10-14). The smallest available geography is police jurisdiction.

Victims in Accepted Child Abuse Referrals

Department of Social and Health Services, Children's Administration, Administrative Services, Case Management Information System (CAMIS)

The annual number of children (age birth-17) identified as victims in reports to Child Protective Services that were accepted for further action, per 1,000 children (age birth-17). Children are counted more than once if they are reported as a victim more than once during the year. The smallest available geography is zipcode.

Violent Crime Arrests, Age 10-17

Washington Association of Sheriffs and Police Chiefs, Uniform Crime Report, Tables 40 and 50

The annual number of arrests of juveniles (age 10-17) for violent crimes, per 1,000 juveniles (age 10-17). Violent crimes include all crimes involving criminal homicide, forcible rape, robbery, and aggravated assault. Simple assault is not defined as a violent crime. The smallest available geography is police jurisdiction.

Appendix Three Police Agencies Not Reporting Arrests to UCR

Snohomish County

Populations Subtracted for Police Agencies not Reporting Arrests to UCR

Arrest data in this report comes from the Uniform Crime Report. Police agencies are not required to report arrests to UCR, they do so voluntarily. For a variety of reasons, a jurisdiction may report part or none of the arrests for a year. In these cases, the denominator is the population of the areas that did report. For example, if juvenile arrests for one agency are not reported, the juveniles for that jurisdiction are not included in the denominator either.

The tables below show the values that comprise the adjustment for your county for each age range we report. "% Subtracted" is the percent of the county's population subtracted for non-reporting. "Subtracted" is the amount subtracted. "Persons" is the county population. "Adjst'd Pop" is the denominator used to calculate indicator rates.

Nevertheless, rates can differ markedly from year to year particularly if a jurisdiction, where most of the crime in the county occurs, did not report. Rates vary from our last report because of refinements to our population adjustment process.

Adjustments for non-reporting (age 10-14)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
% Subtracted	12.52	13.44	9.10	6.14	71.26	16.32	16.52	1.69	1.66	2.70
Subtracted, 10-14	4,112	4,784	3,395	2,428	29,336	6,929	7,185	755	758	1,274
Persons, 10-14	32,856	35,601	37,297	39,533	41,166	42,464	43,488	44,559	45,742	47,181
Adjst'd Pop 10-14	28,744	30,817	33,902	37,105	11,830	35,535	36,303	43,804	44,984	45,907

Adjustments for non-reporting (age 10-17)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
% Subtracted	12.85	13.66	9.29	6.24	70.79	16.35	16.55	1.67	1.63	2.71
Subtracted, 10-17	6,458	7,325	5,211	3,687	43,537	10,468	10,983	1,147	1,157	1,976
Persons, 10-17	50,261	53,605	56,102	59,073	61,502	64,006	66,363	68,873	70,904	72,922
Adjst'd Pop 10-17	43,803	46,280	50,891	55,386	17,965	53,538	55,380	67,726	69,747	70,946

Adjustments for non-reporting (age 18+)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
% Subtracted	15.57	16.34	11.27	7.99	64.69	18.63	15.39	1.52	1.51	2.70
Subtracted, 18+	52,335	56,882	39,937	29,030	238,690	69,940	59,158	5,997	6,119	11,267
Persons, 18+	336,051	348,052	354,226	363,171	368,971	375,388	384,299	395,642	406,372	417,648
Adjst'd Pop 18+	283,716	291,170	314,289	334,141	130,281	305,448	325,141	389,645	400,253	406,381

Police Agencies that did not Report Arrests to UCR

Police agencies in your county are listed below. The table shows reporting patterns for each year 1990-1999. Agencies that did not report arrests, or reported juvenile or adult arrests for only a part of the year, are indicated. If a jurisdiction extends into more than one county, arrests are apportioned to each county.

Jurisdictions	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Arlington Police Department	X	X	1A1J							
Bothell Police Department										
Brier Police Department										X
Chelan County Sheriff's Office										
Darrington	X	X	X	X	X					
Edmonds Police Department	X	X	X	X						
Everett Police Department				7A7J	X	X	X			
Goldbar Police Department	X	X	X	X						
Granite Falls Police Department	X	X	X	X	X					
Island County Sheriff's Office										
King County Police						12J	12J	X		
Lake Forest Park Police Department				X	X	X	X			
Lake Stevens Police Department										
Lynnwood Police Department										
Marysville Police Department	X	X	X		8A12J	X	12J			
Mill Creek Police Department					011111					
Monroe Police Department				7A7J						
Mountlake Terrace Police Department	X	X	9A12J	71175						
Mukilteo Police Department	21		771123							
Shoreline Police Department							12J	X		
Skagit County Sheriff's Office							123	21		
Snohomish County Sheriff's Office					X					
Snohomish Police Department					21					
Stanwood Police Department										
Sultan Police Department		X	X	X						
Tulalip Tribal Police Department		71	21	71				X	X	X
Woodinville Police Department						12J	12J	X	Λ	Λ
Woodway Police Department						123	123	21		
woodway I once Department										

Key: #A Number of months no arrests for adults were reported to UCR.

[#]J Number of months no arrests for juveniles were reported to UCR.

X Did not report arrests to UCR.

